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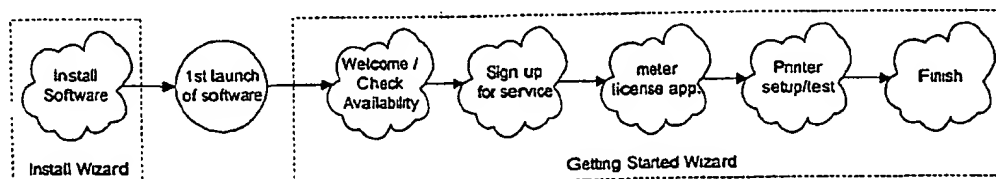
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(54) Title: ONLINE VALUE BEARING ITEM PRINTING



(57) Abstract: An on-line VBI printing system that includes one or more cryptographic modules and a central database. The cryptographic modules are capable of implementing a variety of required security standards. A client system provides a user friendly GUI for facilitating the interface of the user to the system. The GUI system includes wizards that help the user step-by-step with processes of installation, registration, and printing. In one aspect, the invention describes an on-line system for printing a value bearing item (VBI) that includes a client system for interfacing with a user comprising: a GUI for installing software for printing the VBI; a GUI for 8 registering the user in the system; and a GUI for managing the printing of the VBI 88; and a server system capable of communicating with the client system over a computer network for authorizing the client system to print the VBI.

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## ONLINE VALUE BEARING ITEM PRINTING

## FIELD OF THE INVENTION

5 The present invention relates to secure printing of value-bearing items (VBI) preferably, postage. More specifically, the invention relates to a graphical user interface (GUI) for printing of VBI in a computer network environment.

## BACKGROUND OF THE INVENTION

10 A significant percentage of the United States Postal Service (USPS) revenue is from metered postage. Metered postage is generated by utilizing postage meters that print a special mark, also known as postal indicia, on mail pieces. Generally, printing postage and any VBI can be carried out by using mechanical meters or computer-based systems.

15 With respect to computer-based postage processing systems, the USPS under the Information-Based Indicia Program (IBIP) has published specifications for IBIP postage meters that identify a special purpose hardware device, known as a Postal Security Device (PSD) that is generally located at a user's site. The PSD, in conjunction with the user's personal computer and printer, functions as the IBIP postage meter. The USPS has published a number of documents describing the PSD specifications, the indicia specifications and other related and relevant information. There are also security standards for printing other types of VBI, such as  
20 coupons, tickets, gift certificates, currency, voucher and the like.

A significant drawback of existing hardware-based systems is that a new PSD must be locally provided to each new user, which involves significant cost. Furthermore, if the additional PSD breaks down, service calls must be made to the user location. In light of the drawbacks in hardware-based postage metering systems, a software-based system has been developed that does  
25 not require specialized hardware for each user. The software-based system meets the IBIP specifications for a PSD, using a centralized server-based implementation of PSDs utilizing one or more cryptographic modules. The system also includes a database for all users' information. The software-based system, however, has brought about new challenges.

30 The software-based system should be able to handle secure communications between users and the database. The system should also be user friendly and be able to provide the user with a step-by-step process for installing the client software, registering with the system, printing the postage value, maintaining and monitoring the user account information, and the like.

Therefore, there is a need for a new method and apparatus for implementation of VBI  
35 printing via a user friendly GUI with a variety of selectable options.

## SUMMARY OF THE INVENTION

In accordance with one aspect of the present invention, an on-line VBI printing system that includes one or more cryptographic modules and a central database has been designed. The

1 cryptographic modules serve the function of the PSDs and are capable of implementing a variety  
of required security standards. A client system provides a user friendly GUI for facilitating the  
interface of the user to the system. The GUI system includes wizards that help the user step-by-  
step with processes of installation, registration, and printing

5 In one aspect, the invention describes an on-line system for printing a value bearing item  
(VBI) that includes a client system for interfacing with a user comprising; a GUI for installing  
software for printing the VBI; a GUI for registering the user in the system; and a GUI for  
managing the printing of the VBI; and a server system capable of communicating with the client  
system over a computer network for authorizing the client system to print the VBI.

10 Other features of the present invention include a GUI for making changes to the user's  
information; a GUI for displaying the user information including an account information, wherein  
the account information includes an amount of credit left in the account; a GUI for specifying an  
address book so that the system can use the address book to print addresses; and a GUI for  
entering a password so that the server system can store the entered password and verify the  
15 password. In one embodiment, the server system includes an address matching module for  
verifying an address entered by the user.

In another aspect, the invention describes a method for printing a value bearing item (VBI)  
over a computer network having a client system and a server system comprising the steps of:  
displaying a first GUI by the client system for registering a user with the server system over the  
20 computer network; establishing communication with the server via the network; entering user  
information in the first GUI; communicating the entered user information to the server;  
displaying a second GUI by the client system including printing options for managing the printing  
of the VBI; selecting one or more printing options from the second GUI; and printing the VBI  
according to the selected one or more printing options.

## 25 BRIEF DESCRIPTION OF THE DRAWINGS

The objects, advantages and features of this invention will become more apparent from  
a consideration of the following detailed description and the drawings, in which:

FIG. 1 is an exemplary block diagram for the client/server architecture of one embodiment  
30 of the present invention;

FIG. 2 is an exemplary block diagram of a remote user computer connected to a server via  
Internet according to one embodiment of the present invention;

FIG. 3 is an exemplary flow diagram of an installation wizard;

FIG. 4 is an exemplary block diagram of servers, databases, and services according to one  
35 embodiment of the present invention;

FIGs. 5A-5B are exemplary interfaces for application plugins;

FIGs. 6A-6E are exemplary interfaces for Internet connection options;

FIGs. 7A-7C are exemplary process flow diagrams for a getting started wizard;



1 FIG. 7D is an exemplary dialog box for allowing a user to cancel a getting started wizard;  
FIGs. 8A-8B are exemplary interfaces for registration;  
FIGs. 9A-9N are exemplary interfaces for registration and receiving user information;  
FIG 10A is an exemplary process flow diagram for a registration wizard;  
5 FIGs. 10B-10O are exemplary interfaces for a registration wizard;  
FIGs. 11A-11B are exemplary process flow diagrams for a print wizard;  
FIGs. 11C-11L are exemplary interfaces for a printing wizard;  
FIG. 12A is an exemplary process flow diagram for a re-registration process;  
FIGs. 12B-12D are exemplary interfaces for a re-registration wizard;  
10 FIGs. 13A-13N are exemplary interfaces for a print wizard;  
FIGs. 14A-14B are exemplary diagrams showing an indicium printed on an envelop;  
FIGs. 15A-15B are exemplary diagrams of an envelop with and without a graphic paced  
in the area to the left of the return address, respectively;  
FIG. 15C is an exemplary interface for an envelop printing option;  
15 FIGs. 16A-16B are exemplary interfaces for addition of an address book;  
FIGs. 17A-17G are exemplary interfaces for messages;  
FIG. 18 is an exemplary interface for a main menu;  
FIG. 19A is an exemplary process flow diagram for a change of address process;  
FIGs. 19B-19I are exemplary interfaces for change of address;  
20 FIGs. 20A-20C are exemplary interfaces for change payment method;  
FIGs. 21A-21D are exemplary interfaces for change service plan;  
FIG. 21E is an exemplary interface for change e-mail information;  
FIGs. 22A-22B are exemplary interfaces for password entry & verification;  
FIG. 23 is an exemplary interface for a meter withdrawal;  
25 FIG. 24 is an exemplary process flow diagram for a registration wizard; and  
FIGs. 25A-25C are exemplary interfaces for setting up a digital scale.

#### DETAILED DESCRIPTION

An exemplary on-line postage system is described in U.S. patent Application No.  
30 09/163,993 filed September 15, 1998, the entire content of which is hereby incorporated by  
reference herein. The on-line postage system includes an authentication protocol that operates  
in conjunction with the USPS. The system utilizes on-line postage system software comprising  
user code that resides on a client system and controller code that resides on a server system. The  
on-line postage system allows a user to print a postal indicium at home, at the office, or any other  
35 desired place in a secure, convenient, inexpensive and fraud-free manner. The system comprises  
a user system electronically connected to a server system, which in turn is in communication with  
a USPS system.

1 Each of the cryptographic modules may be available for use by any user. When a user  
requests a PSD service, one of the available modules is loaded with data belonging to the user's  
account and the transaction is performed. When a module is loaded with a user's data ,that  
module becomes the user's PSD. The database record containing each user's PSD data is  
5 referred to as the "PSD package". After each PSD transaction is completed, the user's PSD  
package is updated and returned to a database external to the module. The database becomes an  
extension of the module's memory and stores not only the items specified by the IBIP for storage  
inside the PSD, but also the user's personal cryptographic keys and other security relevant data  
items (SRDI) and status information needed for operating continuity. Movement of this sensitive  
10 data between the modules and the database is secured to ensure that PSD packages could not be  
compromised.

In one embodiment, the server system is remotely located in a separate location from the  
client system. All communications between the client and the server are preferably accomplished  
via the Internet. FIG. 1 illustrates a remote client system 220a connected to a server system 102  
15 via the Internet 221. The client system includes a processor unit 223, a monitor 230, printer port  
106, a mouse 225, a printer 235, and a keyboard 224. Server system 102 includes Postage servers  
109, Database 130, and cryptographic modules 110.

An increase in the number of servers within the server system 102 will not negatively  
impact the performance of the system, since the system design allows for scalability. The Server  
20 system 102 is designed in such a way that all of the business transactions are processed in the  
servers and not in the database. By locating the transaction processing in the servers, increases  
in the number of transactions can be easily handled by adding additional servers. Also, each  
transaction processed in the servers is stateless, meaning the application does not remember the  
specific hardware device the last transaction utilized. Because of this stateless transaction design,  
25 multiple servers can be added to each appropriate subsystem in order to handle increased loads.

Furthermore, each cryptographic module is a stateless device, meaning that a PSD package  
can be passed to any device because the application does not rely upon any information about  
what occurred with the previous PSD package. Therefore, multiple cryptographic modules can  
also be added to each appropriate subsystem in order to handle increased loads. A PSD package  
30 for each cryptographic module is a database record, stored in the server database, that includes  
information pertaining to one customer's service that would normally be protected inside a  
cryptographic module. The PSD package includes all data needed to restore the PSD to its last  
known state when it is next loaded into a cryptographic module. This includes the items that the  
IBIP specifications require to be stored inside the PSD, information required to return the PSD  
35 to a valid state when the record is reloaded from the database, and data needed for record security  
and administrative purposes.

In one embodiment, the items included in a PSD package include ascending and  
descending registers (the ascending register "AR" records the amount of postage that is dispensed

1 or printed on each transaction and the descending register "DR" records the value or amount of  
postage that may be dispensed and decreases from an original or charged amount as postage is  
printed.), device ID, indicia key certificate serial number, licensing ZIP code, key token for the  
indicia signing key, the user secrets, key for encrypting user secrets, data and time of last  
5 transaction, the last challenge received from the client, the operational state of the PSD,  
expiration dates for keys, the passphrase repetition list and the like.

As a result, the need for specific PSDs being attached to specific cryptographic modules  
is eliminated. A Postal Server subsystem provides cryptographic module management services  
that allow multiple cryptographic modules to exist and function on one server, so additional  
10 cryptographic modules can easily be installed on a server. The Postal Sever subsystem is easy  
to scale by adding more cryptographic modules and using commonly known Internet load-  
balancing techniques to route inbound requests to the new cryptographic modules.

Referring back to FIG. 1, Postage servers 109 provide indicia creation, account  
maintenance, and revenue protection functionality for the on-line postage system. The Postage  
15 servers 109 include several physical servers in several distinct logical groupings, or services as  
described below. The individual servers could be located within one facility, or in several  
facilities, physically separated by great distance but connected by secure communication links.

Cryptographic modules 110 are responsible for creating PSDs and manipulating PSD data  
to protect sensitive information from disclosure, generating the cryptographic components of the  
20 digital indicia, and securely adjusting the user registers. When a user wishes to print VBI, for  
example, postage or purchase additional VBI or postage value, a user state is instantiated in the  
PSD implemented within one of the cryptographic modules 110. Database 111 includes all the  
data accessible on-line for indicia creation, account maintenance, and revenue protection  
processes. Postage servers 109, Database 130, and cryptographic modules 110 are maintained  
25 in a physically secured environment, such as a vault.

FIG. 2 shows a simplified system block diagram of a typical Internet client/server  
environment used by an on-line postage system in one embodiment of the present invention. PCs  
220a-220n used by the postage purchasers are connected to the Internet 221 through the  
communication links 233a-233n. Each PC has access to one or more printers 235. Optionally,  
30 as is well understood in the art, a local network 234 may serve as the connection between some  
of the PCs, such as the PC 220a and the Internet 221 or other connections. Servers 222a-222m  
are also connected to the Internet 221 through respective communication links. Servers 222a-  
222m include information and databases accessible by PCs 220a-220n. The on-line VBI system  
of the present invention resides on one or more of Servers 222a-222m.

35 In this embodiment, each client system 220a-220m includes a CPU 223, a keyboard 224,  
a mouse 225, a mass storage device 231, main computer memory 227, video memory 228, a  
communication interface 232a, and an input/output device 226 coupled and interacting via a  
communication bus. The data and images to be displayed on the monitor 230 are transferred first

1 from the video memory 228 to the video amplifier 229 and then to the monitor 230. The communication interface 232a communicates with the servers 222a-222m via a network link 233a. The network link connects the client system to a local network 234. The local network 234 communicates with the Internet 221.

5 In one embodiment, a customer, preferably licensed by the USPS and registered with an IBIP vendor (such as Stamps.com), sends a request for authorization to print a desired amount of VBI, such as postage. The server system verifies that the user's account holds sufficient funds to cover the requested amount of postage, and if so, grants the request. The server then sends authorization to the client system. The client system then sends image information for printing of a postal indicium for the granted amount to a printer so that the postal indicium is printed on an envelope or label.

10 When a client system sends a VBI print request to the Server, the request needs to be authenticated before the client system is allowed to print the VBI, and while the VBI is being printed. The client system sends a password (or passphrase) entered by a user to the Server for verification. If the password fails, a preferably asynchronous dynamic password verification method terminates the session and printing of the VBI is aborted. Also, the Server system communicates with a system located at a certification authority for verification and authentication purposes.

15 In one embodiment, the information processing components of the on-line postage system include a client system, a postage server system located in a highly secure facility, a USPS system and the Internet as the communication medium among those systems. The information processing equipment communicates over a secured communication line.

20 Preferably, the security and authenticity of the information communicated among the systems are accomplished on a software level through the built-in features of a Secured Socket Layer (SSL) Internet communication protocol. An encryption hardware module embedded in the server system is also used to secure information as it is processed by the secure system and to ensure authenticity and legitimacy of requests made and granted.

25 The on-line VBI system does not require any special purpose hardware for the client system. The client system is implemented in the form of software that can be executed on a user computer (client system) allowing the user computer to function as a virtual VBI meter. The software can only be executed for the purpose of printing the VBI indicia when the user computer is in communication with a server computer located, for example, at a VBI meter vendor's facility (server system). The server system is capable of communicating with one or more client systems simultaneously.

30 In one embodiment of the present invention, the cryptographic modules 110 are FIPS 140-1 certified hardware cards that include firmware to implement PSD functionality in a cryptographically secure way. The cryptographic modules are inserted into any of the servers in the Postal Server Infrastructure. The cryptographic modules are responsible for creating PSDs

1 In one embodiment of the present invention, Postal Server 401 is a standalone server  
process that provides secure connections to both the clients and the server administration utilities,  
providing both client authentication and connection management functionality to the system.  
Postal Server 401 also houses postal-specific services that require high levels of security, such  
5 as purchasing postage or printing indicia. Postal Server 401 is comprised of at least one server,  
and the number of servers increases when more clients need to be authenticated, are purchasing  
postage or are printing postage indicia.

The growth in the number of servers of the Postal Server will not impact the performance  
of the system since the system design allows for scalability. The Postal Server is designed in  
10 such a way that all of the business logic is processed in the servers and not in the database. By  
locating the transaction processing in the servers, increases in the number of transactions can be  
easily handled by adding additional servers. Also, since each transaction is stateless (the  
application does not remember the specific hardware device the last transaction utilized),  
multiple machines can be added to each subsystem in order to handle increased loads. In one  
15 embodiment, load balancing hardware and software techniques are used to distribute traffic  
among the multiple servers.

The client software includes GUI and wizards for software installation, user registration,  
printing of VBI, account information access, payment, and the like. An installation wizard helps  
the user to install the client software. FIG. 3 is an exemplary flow for the installation routine.  
20 In blocks 301-305, the user agrees to the software license agreement and selects a destination  
directory and folder for the installation software. In blocks 306-307, the user selects the  
appropriate ISP and connects to Internet. Links to other application software and address book  
are installed in blocks 308 and 309, respectively. Any desired plugin software is downloaded and  
installed in blocks 312 and 315. In block 311, the program files are installed and in block 314  
25 the Readme is installed and the user computer is re-booted. The install wizard supports an Auto  
Update before the software is installed. Specifically, the install wizard checks the server for a  
newer version of the client software before installing the software. If a newer version is  
available, then the install wizard notifies the user that a newer version is available on the server,  
and prompts the user whether or not the file is downloaded. If a newer version is not available,  
30 then the install wizard proceeds.

The install routine supports the installation of third party applications, including MS  
Word™, and Word Perfect™. The plugins for these applications are preferably included in the  
download file. The install wizard preferably prompts the users which of these, if any, they would  
like to install. An exemplary interface is shown in FIG. 5A. Address book plugins help the user  
35 select an appropriate plugin to support the function of an address book. The Install Address  
Book plugins are not part of the standard download file in the preferred embodiment. Rather,  
each plugin is its own file that resides on the web. The install wizard preferably prompts the user  
which, if any of the plugins is installed. If multiple selections are made, the user is prompted for

1 a default address book. The interface for this function is shown in FIG. 5B. This list is dynamic  
so that the Address Book plugins can be added or subtracted without requiring a full client  
update.

5 The installation routine also supports OEM branding. Specifically, the install wizard is  
such that the elements described in OEM branding are stored in a resource file, so that the install  
routine itself preferably does not need to be changed – rather the resource file is changed. The  
installation routine or the Getting Started wizard also supports the OEM branding requirements.  
Specifically, a cookie is read and its contents are uploaded to the server.

10 FIGs 6A-6E are exemplary interfaces for the Internet connections. As shown in FIG. 6A,  
once the "I connect with my modem..." radio button is selected, the "Click here to confirm  
settings text" and "Settings..." button become available. When "I connect using AOL" is chosen,  
then an additional wizard screen is seen by the user as shown in FIG. 6B...If "I connect using  
CompUServe is chosen, an additional wizard screen is seen by the user as shown in FIG. 6B.

15 When the user first attempts to log in, and a connection cannot be established, an error  
message appears based upon which connection method the user has chosen. In one embodiment,  
if the user chose to connect by a local area network, the error message shown in FIG. 6C appears.  
if the user chose to connect by a dial up networking connection, the error message shown in FIG.  
6D appears. if the user chose to connect using AOL, the error message shown in FIG. 6E  
appears.

20 Before a user can begin to print postage, a significant number of tasks are preferably first  
completed. These steps are combined into a wizard that launches after the customer installs the client  
software. The preferred goal is to provide a single, streamlined interface that removes any interruptions  
once the user completes the wizard. The overall flow of the user experience in getting started with the  
software is shown in FIG. 7A. The Getting Started wizard includes five main components, a  
25 Welcome component is responsible for welcoming the user (customer), and determining whether  
or not the user should proceed through the complete Getting Started wizard at this time. A Sign-  
up for Service group of screens leads the customer through signing up for a service plan. A  
Registration wizard group of screens handles the meter license application, and can also be  
accessed through the client application through the Options screen. A Print Setup group of  
30 screens take the user through printer verification and printing a quality assurance (QA) envelope.  
This component of the Getting Started wizard includes several independent wizards which can  
be accessed through the client software. The Finish portion of the Getting Started wizard  
congratulates the user and launches the client software. Preferably, the Getting Started wizard  
is comprised of multiple components to facilitate their reuse as individual wizards within the  
35 client software.

Typically, the volume of screens that make up the Getting Started wizard are significant.  
In order to prevent the user from being overwhelmed with the process, preferably the system  
constantly gives the customer a sense as to where they are in the process. To satisfy this goal,

1 the software utilizes a "Follow the Yellow Brick Road" interface, which constantly updates the  
users on their progress in the wizard. The left side graphic area is used to indicate which of these  
stages that the user is currently in. In one embodiment, the stage is indicated using text, with the  
current stage being highlighted. Using text rather than graphics helps minimize the download  
5 size.

Each screen of the Getting Started wizard preferably has a Help button which links to a  
portion of the Help file that pertains to that screen. Whenever a combo box is used in this  
wizard, by default no item is selected, and the prompt "select one" preferably appears to the user.  
10 Preferably, every screen in the Getting Started wizard has a Cancel button on it. The  
functionality of these buttons is consistent throughout the wizard. The various functions that are  
executed when a user selects the Cancel button are described below.

The Verification Prompt is a standard prompt that verifies the user indeed would like to  
cancel the wizard. This is accomplished through a standard dialog box as shown in FIG. 7D. A  
Save Data button is also provided. When the user selects the Cancel button, all of the data that  
15 the user has input is saved locally. If the user starts the Getting Started wizard at a later time, all  
of the information that was previously entered is filled into the appropriate screen in the wizard.  
Using an upload Data button, the client preferably uploads the following data to a log on one of  
the servers; Customer email, the screen that the user catcalled on (resource ID), and the source  
(OEM partner, affiliate, etc.). When the Getting Started wizard first attempts to establish an  
20 Internet connection and experiences an error in connecting, error messages appear depending  
upon the connection method chosen by the user.

The Welcome portion of the Getting Started wizard provides two functions. First, it  
welcomes the user to the process and gives the user an idea of what is involved in the process.  
Second, it determines whether or not a user should complete the Getting started wizard at this  
25 time. There are two reasons why a user is kept from completing the Getting Started wizard, as  
shown in FIG. 7B. The first is if the user has previously completed the Getting Started wizard,  
shown by block 721. The second is when the provider's service is over booked and there is no  
opening available for the user, as shown by block 723. When this portion of the Getting Started  
wizard has begun, the Follow the Yellow brick Road text reads "Start". The logical flow of the  
30 Signup for Service component is shown in FIG. 7B. The Welcome Screen #1 720, in FIG. 7B,  
lists three major steps that the customer should complete in order to finish the wizard. As shown  
in FIG. 8A, the screen includes a smaller version of each screen group graphic to help the  
customers recognize each screen group as they come to it. The "Welcome" step of the "Follow  
the Yellow-brick Road" list is highlighted to show the customers that they are on the Welcome  
35 screen. A check box allows a user to skip the Registration and Print Configuration wizard. If  
the user selects the check box, the wizard closes and the "rereg" dialog box appears. The default  
state for the check box is unselected.

1           If there is no slot available for the user, the Welcome Screen #2 725, in FIG. 7B, appears to the user in the event that the user cannot be signed up the user at that time. A URL link button links the user to the web site on the page where the user can pre-register, as shown in FIG. 8B. By pre-registering, the user will later be notified when a slot is available.

5           At this point in the Getting Started wizard, the client preferably downloads information from the server for use throughout the remainder of the wizard. Specifically, the information that is downloaded includes Service Plan Information such as Plan Name, Plan ID, Text file describing all of the plans, Contract for the plan (text file), Min purchase amount, Max purchase amount, Purchase Upfront (y/n), URL link to full description (common web link for all plans),  
10       Preferred Service Plan; and Payment Information including Payment types accepted, and Preferred payment type.

          The Sign up for Service component of the Getting Started wizard extracts all of the information required to sign up the user for service with the provider. When this portion of the Getting Started wizard has begun, the "Follow the Yellow Brick Road" text is changed to  
15       "Register with Provider" (e.g., Stamps.com). The logical flow of the Sign up for Service component is shown in FIG. 7C.

          Service Screen #1 (block 730 of FIG. 7C) is shown in FIG. 9A. The "Send me information..." checkbox is checked by default. Selection of this check box provides a database entry that designates that the provider and its partners have the right to solicit the user with  
20       marketing programs. The "Next>" button is not enabled until all required information is filled in. Required information for this screen includes the First Name, Last Name, Phone, and Email.

          Service Screen #2 (block 731 of FIG. 7C ) is depicted in FIG. 9B. The fields in the upper portion of the screen allow the user to enter the physical location of the user computer. The lower portion of the screen allows the user to enter mailing address information in one of two  
25       ways. If the user selects the "Use physical address" check box, the values stored for the mailing address are made to be the same as those of the physical address, and the "Next>" button becomes enabled. Otherwise, the mailing address fields are enabled for user input. The "Next>" button is not enabled until all required fields are filled in. After the user selects "Next>", an AMS check on the address is performed, as shown by block 732 of FIG. 7C. The client checks  
30       for a PO Box in the physical address fields, as shown by block 733 of FIG. 7C. In blocks 734 and 735, if a P.O. Box is provided, an error message preferably indicates that a P.O. Box is not acceptable.

          After service screen #2 is completed, in block 736, an AMS check on the addresses is run. Also, a check is made as to determine whether the zip code that the user provides is currently the  
35       one that is supported, as shown in block 737. If it is determined that the physical zip code is one that is supported, the user continues with service screen #3 in block 739. If the zip code is NOT one that is supported, Service Screen #2a appears to notify the user that the user is unable to sign up at this time, as depicted in block 738. An exemplary interface for Service Screen #2a is



1 shown in FIG. 9C. A URL link button links the user to the provider's site on the page where the user can pre-register. By pre-registering, the user is notified later when a slot is available within the zip code for the physical address that is provided.

5 In block 739, the user enters "user name" and "password." An exemplary interface for Service Screen #3 is shown in FIG. 9D. The password preferably comprises at least 6 characters, with at least 1 alpha character and 1 numeric character. The "Next>" button is not enabled until all the information has been filled in. In block 743, Service Screen #4 captures information that either Customer Service or the client software can use to verify a customer's identity in the event that the customer loses his/her password. An exemplary interface for Service Screen #4 is shown  
10 in FIG. 9E. The key word, or "secret code" is the answer that the user gives to a question selected by the user. The default questions that the user may select from include;

- What is your mother's maiden name?
- What is your favorite pets name?
- What is your favorite vacation spot?
- 15 • What is your place of birth?

After selecting a question, the user can enter a response into an edit field. The "Next>" button is not enabled until after the information is filled in.

In block 744, in Service Screen #5, the users specify how they will use the account. Preferably, none of the radio buttons are selected on open. An exemplary interface for Service  
20 Screen #5 is shown in FIG. 9F. The company information fields and text are grayed-out and disabled until the user selects one of the three business radio buttons. The "Next>" button is not enabled until the user selects the "Personal/Individual" radio button or until the required business fields are populated if the user selects one of the business radio buttons. In addition to storing the user's response for use by the provider, the user's input is interpreted in order to pre-fill  
25 portions of the meter license. Specifically, if the user selects the first radio button, "Personal/Individual Use", the user is categorized as a "personal" user for the meter license application. If any of the other three radio buttons are selected, the user is categorized as a business user for the meter license. If the user selects one of the business categories, the data input into the business fields is stored both for use by the provider and for insertion into the meter  
30 license application.

Service Screen #6, in block 745, provides several types of information all related to the user's postage usage habits, for use both by the provider and the USPS. In this screen, as depicted in FIG. 9G, the user specifies their mail volume using a spinner box and the letter category is split into window and standard envelopes. In addition, a question is asked with yes  
35 or no radio button response options (Do you currently lease or rent a traditional postage meter?). The "Next>" button is preferably not enabled until the user has selected a value in each box. The mail volume box is blank by default. Each of the four percentage boxes preferably has a 0 in it. When the user hits the "Next>" button, verify that the percentage boxes add up to 100%. When

1 storing the percentages for use in the USPS meter license application, the first two percentages (letters – standard envelopes and letters – windowed / pre printed) are added together to create the value for the USPS “letters” category. The other two percentages map equally to their USPS counterparts.

5 Service Screen #7 (block 746) allows the user to select a service plan from the provider. The following information is preferably downloaded at the beginning of the registration wizard: Service Plan names, a URL to a page on the provider's web site that describes the service plans in detail, and text files describing each service plan. FIG. 9H depicts an exemplary interface for this screen. The drop down box preferably displays all available plans at the time. No plans are  
10 selected by default, and the prompt “Select One” appears. At this time, a text file that briefly describes all of the plans currently available is displayed in a scrollable text window below. Once the user selects a plan, the text file below is changed to display a text file that describes only that plan. If a preferred service plan is defined, this plan is the first one to appear on the drop down list (still none of the plans selected by default). A URL link takes the user to  
15 provider's web site for details on the plans. The “Next>” button is disabled until the user selects a plan.

As illustrated in block 747, Service Screen #8 displays the service contract for the service plan that the user selected on the previous screen. This contract is a text file, which is downloaded at the beginning of the registration wizard. As shown in FIG. 9I, neither of the two  
20 radio buttons are selected by default, and the “Next>” button is disabled until the user selects one of the choices. If the user selects “I Accept”, the wizard will continue. If the user selects “I do NOT accept”, a message box should appear as described below. This wizard screen should still remain open in the background behind this dialog box. If the user selects “I do NOT Accept on Screen #8 of FIG. 9I, a dialog box, shown in FIG. 9J, appears indicating that the user must accept  
25 the terms in order to sign up with the provider. If the user selects “Go Back”, this dialog Box closes, and the user is brought back to screen #8 of the wizard. If the user selects “Cancel”, the Getting Started is canceled.

Service Screen #9, depicted in FIG. 9K, is built dynamically, depending upon a user's response to the payment type prompt. The payment type field is empty by default. The values  
30 available for this field are preferably downloaded when the registration wizard begins. The “Next>” button is disabled before AND after a value is selected for the payment type. The “Next>” button remains disabled until the screen dynamically builds, and all of the fields are completed by the user. If a preferred payment method is defined, this method of payment is the first one to appear on the drop down list (still none of the payment method types are selected by  
35 default).

If a credit card is selected as the method of payment in decision block 750, the fields shown in the screen of FIG. 9L appear. The cardholder name and card number are both edit boxes. The expiration date is entered using two combo boxes. The prompt for the billing address

1 allows the user to either enter an address manually, or copy the address given on service screen  
#2 as a mailing address. If the user selects the "Use Mailing Address" check box, the mailing  
address information is copied into the billing address fields, and these fields are disabled. All  
fields preferably should be filled in before the user can proceed. After the user selects "Next>",  
5 an AMS check on the address is performed, as shown in block 753.

If ACH method of payment is selected in decision block 750, the fields shown in screen  
of FIG. 9M appear. All fields preferably should be filled in before the user can proceed. Service  
Screen #10, in block 756 or 757, allows the user to purchase postage. The order is accepted at  
this time, but is not processed until the meter license has gone through. At the beginning of the  
10 registration wizard, the maximum and minimum purchase amounts associated with a service plan  
are downloaded. As shown in FIG. 9N, the user can enter a purchase in one of two ways: by  
selecting a pre-defined amount or by entering an amount into an edit box. In one embodiment,  
the pre-defined values of the radio buttons are \$10, \$25, \$50, \$100, and \$200. If any of these  
values are lower than the minimum purchase amount associated with the plan that the user has  
15 selected, then the associated radio button(s) is disabled. Similarly, if any of the pre-defined  
values are higher than the maximum purchase amount allowed by the plan that the user selected,  
then the associated radio button(s) is disabled. The Purchase Postage control allows the user to  
enter in both dollars and cents values. Preferably, none of the radio buttons are selected by  
default. If the selected plan offers free postage without requiring a purchase, the "Next>" button  
20 is always available. Otherwise, the "Next>" button is disabled until a purchase amount is  
selected. If the service plan selected by the user does not require the immediate purchase of  
postage, an additional radio button should appear which allows the user to select a value of  
"none."

As described above, the Registration Wizard is capable of gathering all of the information  
25 that is required by the USPS for a Meter License Application. The information that is extracted  
in this wizard is used to generate a USPS 3601A form. FIG. 10A is an exemplary flow of the  
Registration wizard component of the Getting Started wizard. When this portion of the Getting  
Started wizard has begun, the Follow the Yellow Brick Road text is changed to "Apply for a  
Postage Meter". In block 1010, License Screen #1 serves the purpose of letting the user know  
30 that he/she is entering the portion of the wizard where the meter license is filled out. The follow  
the Yellow Brick Road text will change to meter License application., as shown in FIG. 10B.

In block 1011, the user determines whether they are a business or an end user. In License  
Screen #2 (block 1012), the user specifies which identification number they wish to use. None  
of the radio buttons are selected on open, as shown in FIG. 10C. The "Next." button as well as  
35 the Tax ID#, EIN, and SSN fields are grayed-out and disabled. When the user selects a radio  
button, it enables the corresponding field. When the user begins to enter data in a field, it enables  
the "Next>" button. License Screen #3 (block 1013) is for the user to answer some business  
related questions, as depicted in FIG. 10D. The "Next>" button is not enabled until the questions

1 are answered.

License Screen #3a (block 101a) only appears to business users. As illustrated in FIG. 10E, neither of the radio buttons are selected by default, and the edit fields and the Next button are preferably unavailable when the user first sees this screen. If the user selects "Yes", the Next  
5 button becomes available. If the user selects "No", the edit fields become available. Once all of the required fields have been completed, the Next button becomes available. License Screen #4 (block 1015) of FIG. 10F includes a field in which the user enters a Social Security #. The "Next>" button is not enabled until the field is filled in with a nine digit number. In License Screen #5 (block 1016) of FIG. 10G, neither radio button is selected by default. The "Next>"  
10 button is initially disabled. If the user selects the "No" radio button, the "Next>" button becomes available. If the user selects the "Yes" radio button, the "Next>" button is not enabled until at least one set of license and finance numbers have been entered.

FIG. 10H is an exemplary interface for License Screen #6 of block 1017. In this screen, neither radio button is enabled by default. The "Next>" button is enabled if the user selects the  
15 "No" radio button or once the revoked reason field is populated if the user selects the "Yes" button. FIG. 10I is an exemplary interface for License Screen #7 of block 1018. In this screen, a check box is used to verify the accuracy of the information. Once the check box is selected, the "Next>" button is enabled and the information is submitted to the server. If the user does not select the checkbox, the only options are to go back and make changes or cancel the Getting  
20 Started wizard. In addition to the information that was gathered during the wizard, the following information need also be submitted; OEM #, Tracking #, 3<sup>rd</sup> Party Applications installed, and the Address Books that were installed.

An exemplary interface for License Screen #8 (block 1019) is illustrated in FIG. 10J. This screen serves the purpose of providing a status to the user while all of the information that has  
25 been provided in the wizard, including payment information, is uploaded. In addition to uploading the information that has been extracted as part of the Getting Started wizard, the OEM tracking ID is uploaded as well. For OEM partners, the ID is in a registry key. Initially, the "Next>" button on this screen is disabled, and only the text in the upper portion of the screen appears. Once the communication with the server is completed, the text "Select Next to  
30 continue" appears, and the "Next>" button becomes available.

In blocks 1021 and 1023, the information entered by the user is checked for any potential errors and the errors are reported to the user. Once the information has been submitted, the server is able to communicate if any of three errors occur with the information that the user has  
35 provided. These errors include a non unique user name, bad ACH information, and rejected credit card payment. If any of these errors occur, a wizard screen appears that dynamically displays the error that is returned from the server. When the user selects "Next>", the appropriate wizard screen shown in FIG. 10K appears and allows the user to resubmit information. Preferably, the User cannot continue until the error is corrected. After correcting the error, the

1 wizard returns to the submit screen. If an additional error is found, this routine is repeated.

5 In block 1028, if the user submits a non unique user name, the dialog box of FIG. 10L appears. This dialog box preferably has the same functionality of the user name wizard screen, except that the lower portion (the password portion) is not displayed, the suggest button appears, and the text changes as shown. If the user selects the Suggest button, the client populates the user name field with the suggestion that is sent down from the server. In block 1026, if the ACH check indicates that there is a problem with the ACH information, the dialog box depicted in FIG. 10M appears. This dialog is preferably the same as the select payment screen of the wizard, with one exception; the Payment Type is pre-filled with the selection "ACH" and as a result the ACH fields will be available. These fields are preferably pre-populated.

10 In block 1027, if a reject on a credit card process is received, the dialog box shown in FIG. 10N appears. This dialog is preferably the same as the select payment screen of the wizard, however, the Payment Type is pre-filled with the original credit card selection, with all of the associated fields pre-filled. In block 1024, the License Screen # 9, illustrated in FIG. 10O, serves the purpose of letting the user know that the meter license portion has been completed, and that the Print Configuration will be next. In addition, this screen dynamically lets the user know what the expected wait time is in the second paragraph based upon a "license approval delay variable" that is downloaded from the server. If the license approval delay variable is "0" (i.e. instant approval) then the second paragraph is not displayed. If the license approval delay has a value other than 0, the second paragraph is displayed and dynamically inputs the delay amount as shown below. The variable number that is provided by the server is in hours. Once this verification is completed the user may proceed to Print Setup wizard, as shown in block 1025.

15 The Print Setup portion of the Getting Started wizard includes several wizard components, which can be broken out and used individually in the client software. These wizards are brought together into the Print Setup portion of the Getting Started wizard to provide all of the printing oriented checks and tasks that a user should complete before starting with the software. These include: Print Verification, Print QA envelope, and Determine top, center, or bottom envelope feed (if necessary). When this portion of the Getting Started wizard has begun, the Follow the Yellow Brick Road text is changed to "Test Printer". An exemplary flow of the Print Setup component is shown in FIG. 11A.

20 In block 1101, Print Setup Screen #1 is used to select default printer. This screen, shown in FIG. 11C, prepares the user for testing on the user's printer. A drop down box displays all of the printers that are installed on the user's system, and allows them to select the default printer to be used. When a user selects a printer, this printer is considered as being selected for the print jobs that are performed during this section of the wizard. In addition, this default selection is incorporated into the standard Print Prepare dialog box, and is therefore the printer chosen until the user selects otherwise. None of the printers is selected by default, and the "Next>" button preferably is not available until the user selects a printer.

1 In block 1102, Print Setup Screen #2, shown in FIG. 11D, allows the user to select two bits of information that are required before the print testing functions can be undertaken. The first is a drop down box, which allows users to select a envelope size to be used throughout the tests. These tests do not allow a user to use labels, so only the envelope options appear. The  
5 second bit of information is whether or not the user wants to omit the return address or not. The user prompt is preferably different here than in the Print Options dialog. In this case, if the user selects, "yes", the return address is printed. If the user selects "no", the return address should not be printed. The answers to both of these items are stored and used for all testing undertaken within this portion of the wizard. The information that is gathered here is also used to populate  
10 the corresponding fields within the Print Postage and Print Options dialog boxes when the user first launched these screens. Neither the envelope sizes, nor the radio buttons contain values by default. Furthermore, the "Next>" button is preferably not available until the user selects an envelope size and answers the yes/no question.

In block 1103, it is determined whether the default printer information is in the printer  
15 database. If the printer information is not in the database, a printer troubleshooting routine is performed, as shown in block 1104. If the printer information is in the database, printer Screen #3, depicted in FIG. 11E, appears. This screen serves the function of notifying the user that postage is about to be printed, and making the user aware that an envelope must be loaded into the feeder. A graphic of an envelope being placed into a printer is preferably used to help re-  
20 enforce the action to the user. This screen is used multiple times during the Printer Setup portion of the Getting Started wizard. See the flow diagram for further details. The "Next>" button is available immediately. Once the "Next>" button has been selected, a sample QA envelope is printed, as shown in block 1106. In block 1107, the sample is compared with a sample shown in Printer Screen #4 of FIG. 11F. In this screen, neither of the radio buttons is selected by  
25 default, and the "Next>" button is not available until the user selects one. In block 1108, if the samples do not compare, printer troubleshoot 2 is activated to perform the troubleshooting task, as illustrated in block 1109. If the samples compare correctly, the printer information is uploaded and the money in the meter is checked, as shown in blocks 1110 and 1111 respectively.

Similar to Printer Screen #3, Printer Screen #4 serves the function of educating the user  
30 about QA envelopes, notifying the user that postage is about to be printed, and making the user aware that an envelope needs to be loaded into the feeder. A graphic of an envelope being placed into a printer is used to help re-enforce the action to the user. This section of the wizard, illustrated in FIG. 11G, only appears if there is money in the user's meter (this requires instant meter approval), as shown in blocks 1111 and 1112. The "Next>" button is available  
35 immediately. Once the "Next>" button has been selected, a QA envelope is printed in block 1114.

Next, in block 1115, Printer Screen #6, shown in FIG. 11H, appears. This screen's primary function is to educate the user that the QA envelope should be sent in immediately, or

1 the user's meter license may be revoked. A graphic of an envelope being placed into a mail box is used to help re-enforce the action to the user. The "Next>" button is available immediately.

In the event that the user's printer is not in the printer database, the Print Configuration wizard is initiated. An exemplary flow for the Print Configuration wizard is shown in FIG. 11B.

5 The first screen in this wizard is Printer Setup screen #3 (see FIG. 11E), which prompts the user to place an envelope in the printer feed tray. Once the user selects "Next>", a pattern including a circle, a square, and a triangle is printed. Only one of these shapes completely prints onto the envelope fed through the printer, so based upon which shape appears to the user, the system can ascertain if the printer feeds envelopes from the top, center, or bottom. The Printer Screen #7, shown in FIG. 11I, provides a means by which users can tell the client which of the shapes appear on the envelope. This is done through a series of radio buttons. None of the radio buttons is selected by default, and the "Next>" button is not available until the user selects one of the options. If the user selects either the circle, square, or triangle, the appropriate offset is made, the information is sent to the server, and the user continues with screen #8 as shown in block 10 1126 and 1127.

In block 1123, if the user selects "none of the above match what I see" on screen # 7, Printer Screen #8, shown in FIG. 11J, appears to ask the user which option the user would like to pursue at this time. Three radio buttons provide the options. If the user selects the Try printing another sample option, another shape design is sent to the printer, so that the comparison process can be undertaken again. Selecting the Try printing another sample to a different printer option links the user back to screen #1 of the Print Setup, allowing the user to select another printer and start the process again. Selecting the Neither of these solutions work option indicates that the system cannot determine a feed offset and therefore cannot print envelopes using the user's printer. When "Next>" is selected, the message on screen #9 conveys this to the user. 20 None of the radio buttons is selected by default, and the "Next>" button is not available until the user selects one of the options.

If the user selects "neither of these solutions work" on screen # 8, print envelope is disabled and Printer Screen #9, shown in FIG. 11K, appears to ask the user to let the user know that he/she is not able to print postage onto envelopes, only onto labels (see blocks 1128 and 1129). The "Next>" button is available immediately. Once selected, the client preferably disables printing to envelopes. A Finish portion of the Getting Started congratulates the user for completing the wizard, and launches the client. When this portion of the Getting Started wizard has begun, the Follow the Yellow Brick Road text is changed to "Finish". An exemplary interface for Finish screen #1 is illustrated in FIG. 11L. The "Finish" button is preferably 30 available immediately. Once the "Finish" button has been selected, the user is ready to launch the client software.

A re-registration process allows users to re-register across systems. An exemplary flow for the re-registration process is shown in FIG. 12A. To begin the re-registration process, the

1 user logs in as normal via the login dialog box shown in FIG. 12B. The client sends the User  
Name, Password, and system identification information to the server. After checking for the  
validity of the user name and password, the server checks if the user is currently registered on the  
current system, or on another system. In block 1203, if the user is registered on the current  
5 system, login continues as normal, as shown in block 1204. If the user is currently registered on  
another system, in block 1206, another check is made to determine if the user is currently logged  
into the provider's service. In block 1207, if the user is already logged in, the message in FIG.  
12C appears. In block 1209, when the user selects "OK" the login attempt is aborted. In block  
1208, if the user is currently registered on another system, and is not currently logged in, then the  
10 dialog box of FIG. 12D appears. This dialog box prompts the user as to whether the user wants  
to re-register his/her account on the current machine. In block 1210, if the user selects "Yes", the  
account is re-registered (block 1211). If the user selects "No", the login attempt is aborted (block  
1212).

The client print engine prints a Facing Identification Mark (FIM) in accordance with USPS  
15 specifications. Preferably, the FIM is printed within 1/8" from the top of the envelope, and no  
more than 2 1/8" from the right hand edge, as shown in FIG. 13A. A print engine supports as  
broad a range of printers as possible, utilizing whatever specialized techniques that are deemed  
appropriate for proper printing of the postage indicia (i.e. rotation and virtualization). Before  
rotation is applied to an individual client, a verification is performed to verify that the user's  
20 printer and print driver are known to work with this technique. This is accomplished using a check  
against a database of printers and printer drivers that are known to work with rotation within the  
client software. This database is preferably created through hands on testing. Some examples  
of print dialog boxes for the Print Postage dialog box, Print Prompt dialog box, and Printing  
Options dialog boxes are shown in FIGs. 13B-13I.

25 A Print Postage dialog box is the main interface from which a user defines the postage to  
be printed. An exemplary interface for this dialog box is illustrated in FIG. 13J. Return Address  
items are grouped within their own frame. The Return Address box is editable, allowing users  
to customize the return address by simply typing into the box. Delivery Address items are  
grouped within their own frame. The Delivery Address box is editable, allowing users to insert  
30 a delivery address by simply typing into the box. If a user adds an address which is not in the  
address book, the user is prompted whether or not the address is added. In the event that only a  
single recipient is chosen, the address is displayed in the same format that it is in the return  
address window. If multiple recipients are selected, the view is that of a list box displaying the  
names of all of the recipients that have been chosen. If multiple recipients are selected and  
35 different recipients require mailing to different zones, then the cost of postage is displayed next  
to that recipient.

"Do not print the Return Address" is unchecked by default. Mail Type toggle buttons  
enable the user to select whether the mail to be sent is a letter, flat, box or oversized box. This



1 information is used to determine what labels and/or envelopes are available to the user, as well  
as what the postage rate will be. The letter toggle is selected by default. Mail type description  
field provides a brief description of the mail type that is currently selected with the Mail Type  
toggle buttons. Print On list box allows user to select from all Envelopes and Labels. The items  
5 displayed in this list box are determined by the type of mail that was selected in the previous list  
box. If a letter is selected, only envelopes and labels approved by the USPS are available. If a  
flat or box is selected, only labels approved by the USPS are available. No values are selected  
by default.

The Enter Weight fields allow users to type in values or select them using spinner controls.  
10 If the user has set up a digital scale, clicking on the scale button automatically pulls the value  
from the scale and display the value in these fields. After the initial use, the fields remember the  
last value. The "Select a Service" control is a list box, which shows the various services that are  
available and also displays the cost of each type of service for the mail piece that has been  
defined. The prices update as the user inputs information into the Enter Weight fields. If the user  
15 is typing a value, the display immediately updates as the user types. If zone based postage is  
used, and if multiple users are selected, the range of costs is displayed. Once a user has selected  
a mail service, a graphic of a check mark should appear immediately to the left of the item as  
shown. None of the items are selected by default. Available Postage display displays the  
available postage amount. Total Mailing Cost displays the cost of the total mailing when  
20 multiple recipients are selected.

Preview Window is dynamic, depending upon the selection from the "Print Onto" list Box.  
Print button decides whether to print a sample or real postage. This single print button advances  
the user to the Print Prompt screen. Options button launches the appropriate options dialog box,  
depending upon the selection type into the "Print Onto" list Box. If an envelope is selected, the  
25 Envelope Options dialog box will be launched. If a label is selected, the Label Options dialog  
box appears. In the event that multiple recipients and/or zone based postage rates are selected,  
portions of the Print Postage dialog changes slightly in their functionality, as shown in FIG. 13K.

In the exemplary screen of FIG. 13K, when multiple recipients are selected, they are  
displayed as a list with only the recipient name showing. When multiple recipients are selected  
30 which span multiple zones, the price of the mail piece going to an individual recipient is  
displayed next to the recipient's name. This display only appears after a weight value that  
warrants zone based postage has been entered. The Select a Service list box shows a range of  
prices for the mailings. The Cost of Mailing display appears when multiple recipients are  
selected, and provides the user with a total cost for the mailing.

35 After the user has selected "Print" from the Print Postage dialog box, the Print Prompt  
dialog box of FIG. 13L appears. The Print Prompt dialog box takes on several functions,  
including selection of the printer, printer paper feed, and determination of whether a sample or  
real piece of postage is being printed. The printer list boxes provide a selection of available

1 printers. Standard Windows displays (optional) display the selected printer. Existing printer feed information displays relevant information about the selected printer. Print Internet Postage and Print Sample buttons print postage, and the Configure button launches the Print Configuration wizard.

5 Envelope Options dialog box, depicted in FIG. 13M, is launched from the Print Postage dialog box when two conditions are met: 1) the user selects the "Options" button, and 2) an envelope is selected in the "Print Onto" drop down box. Do not print a FIM check box has a small graphic icon to let the user know what the FIM barcode is. Postdate Mail piece control has a text description as shown. If the user selects the check box, the edit box becomes available to  
10 allow editing. Indicium correction items allow the user to print two forms of special Indicia: postage correction and date correction. Return Address Graphic control allows the user to select a graphic to be printed with the return address. Return Address adjustments and Delivery Address adjustments controls provide margin adjustments for the return address and delivery address, respectively. Indicium graphics that can be displayed within the Indicium are preferably  
15 controlled by the provider. To accomplish this, the system provides graphics for the Indicium in a digitally signed format, embedded within a DLL. At a minimum, this graphic is used for OEM partners. The system also provides clip art for the Indicium graphics. The system therefore makes sure that this DLL can be downloaded on its own, so that a clip art library can be updated without forcing a complete download of the client. If the DLL is not present, this control is  
20 unavailable.

FIG. 13N is an exemplary interface for a Label Options dialog box. This dialog box is launched from the Print Postage dialog box when the user selects the "Options" button, and a label is selected in the "Print Onto" drop down box. Do not print a FIM check box control has a small graphic icon to let the user know what a FIM barcode is. Postdate Mail piece control has  
25 a text description as shown. If the user selects the check box, the edit box becomes available. Indicium correction items allow the user to print two forms of special Indicia: postage correction and date correction. Indicium graphics that can be displayed within the Indicium are preferably controlled by the provider. To accomplish this, the system provides graphics for the Indicium in a digitally signed format, embedded within a DLL. At a minimum, this graphic is used for  
30 OEM partners. The system also provides clip art for the Indicium graphics. The system therefore makes sure that this DLL can be downloaded on its own, so that a clip art library can be updated without forcing a complete download of the client. If the DLL is not present, this control is unavailable. Delivery Address font control allows the user to change the font of the Delivery Address by launching a secondary dialog box.

35 A Print Configuration wizard helps the user undergo three major processes: determining top, center, or bottom offset (if needed), providing print verification, and Printing a QA envelope. The print engine preferably incorporates the provider's logo into the Indicium. Rather than integrating a single static logo graphic, the print engine accommodates a scalable graphic. The

1 reasoning behind this is as follows. In order to conform to the FIM placement standards which  
requires that the FIM consistently be printed 2" +/- 1/8" from the right hand edge of the envelope,  
the space available between the FIM and the human readable portion of the Indicium will change  
depending upon the right hand margin of the printer used, as shown in FIG. 14A. The logo is  
5 scaled to the maximum size available given the space constraints which arise from the individual  
printer margin. This approach ensures that the maximum log size is always used, as shown in  
FIG. 14B.

A means by which users can customize their mail piece with a graphic file of their  
choosing is provided by the system. The system provides users with the ability to incorporate  
10 a graphic into the return address space. Specifically, the client software allows the user to  
incorporate a standard graphic into the area to the left of the return address, as shown in FIG.  
15A. The default state is that no logo is selected for this position. In the event that no logo is  
selected, the layout is as shown in FIG. 15B. The controls for the determination of the image to  
occupy this space are found in the Print Postage Options (Envelope Printing Options) dialog box  
15 of FIG. 15C. When Include Graphic check box is selected, it indicates that the print engine  
should print a graphic file. When this check box is not selected, the print engine should not print  
a graphic. The default for this check box is unselected. Selecting the Browse button opens a  
standard file browse dialog box, which allows the user to browse for and select a file. Preview  
Window provides a preview of the selected graphic once it has been selected.

20 A personal address book may be used by the user to print addresses on the mail pieces.  
The client's native address book is functional even when the user is offline. Specifically, the user  
is able to add addresses, edit addresses, import addresses, and remove addresses without  
requiring the user to login online. In order to ensure that every address that is entered, modified,  
or imported undergoes an AMS check, addresses undergo an AMS check at the time the postage  
25 is printed to an address (see Printing description). In addition to the native address book, the  
system provides support for a variety of external address books. Examples of some of the  
address books supported include Microsoft Outlook™, Schedule +™, Symantec ACT!™, Lotus  
Organizer™, Lotus Notes™, GoldMine™, Microsoft Windows Address book, and the like.

The client's support for the external address books is such that the user can read data from  
30 any of these address books from within the standard client address book interface. The data is  
able to be read in real time. In addition, the user is able to make changes to addresses and write  
these changes back to the external address book. In order to allow the user to select which  
address book to use (either the native or any of the third party address books), several controls  
are added to the client Address Book interface, as shown in FIG. 16A. Select an Address Book  
35 combo box contains a list of all address books that are supported by the client, and have been  
installed by the user. The default is set to the system's Address Book. Preferably, this drop down  
box remembers the last selection. Select a database or file combo box control displays a list,  
which includes the default file or database (depending upon the provider), and any other file that

1 the user has previously opened using the browse button. Browse button allows the user to open  
additional files or databases for the Address Book selected by launching the appropriate "open"  
dialog for the provider. Preferably, when possible, the only controls on the Address Book  
provider's open screen is the bare minimum that are required to open a file. The user can modify  
5 addresses using the "properties" button. Based upon which Address Book is selected, a different  
set of fields is displayed within the edit properties dialog box. The fields map to the format of  
the Address Book that is selected. The user has the ability thereafter to switch Address Books  
on-the-fly, by selecting the appropriate Address Book from the selection box as shown in FIG.  
16A.

10 In one embodiment, the code that provides support for each Address Book is created as  
a plugin, allowing users to only download the Address Books that they want support for. The  
install routine provides a means by which users can select which Address Books are downloaded,  
and automate the installation of the plugin. Support is provided for importing other address data.  
For example, the system provides import filters for the following: Daytimers, The Learning  
15 Channel products, MYOB, and the like. Also, Address Books support standard group  
capabilities. The system is capable of providing support for foreign addresses, and is able to pass  
AMS matching checks. Furthermore, the system provides the capability to print addresses that  
have been returned by AMS in a format that includes both upper and lower cased alpha  
characters. In other words, the address that is printed should preferably have the same formatting  
20 of upper and lower case characters as the user originally entered. When multiple recipients are  
selected from the Address Book, the dialog box shown in FIG. 16B appears to educate the user  
about multiple recipient selection. Selecting Ok closes the dialog box and returns the user to the  
Print Postage dialog box. If the user selects the check box (which is unselected by default), this  
dialog box will not appear again in the future.

25 The Address Book within the client provides a utility to import text files that have been  
exported from other Address Books. Typically, when a user imports a text file, the user need to  
"map" the fields from the original file into the fields of the destination file. This is very  
cumbersome for the user, and often prevents users from successfully importing files. To avoid  
forcing the user to map fields, the system provides import "filters," that are unique filters written  
30 for each Address Book. Since each filter is unique to an individual source file, the filter knows  
the data field structure of the source file (and it knows the data structure of the destination system  
Address Book). With this knowledge, the import filter is able to import files from other Address  
Books without requiring any data structure input from the customer. To meet the brandability  
needs, the system accommodates an easy addition of import filters.

35 The system also provides a flexible messaging system, which includes a communication  
channel between the provider and its users through the client software. Messages may be created  
by various departments within the provider's organization and are pushed by the server to one of

1 several types of messaging dialog boxes. Some examples of messaging dialog boxes are described in detail below.

FIG. 17A is an exemplary message dialog box. The graphic indicates the message category, the Text box displays characters of text in a non-editable text box, the URL Link button is dynamic and is available only when a URL address is included with the messages, and the OK button closes the dialog box. If applicable, selection of the OK button also executes a function (see specific cases, below). For client / server communications, the server is able to assign a message to any of the following: Individual users, all users, and a group of users (defined by any attribute that system stores). The client checks the server for messages awaiting the individual user at login. If a message is found for the individual user, the server sends the following information down to the client: Message type, Message Text, and URL link. In addition, if the message type is "payment" the following information are also sent: date of payment rejection, type of payment for payment rejection, account for payment rejection, and amount of payment rejection.

15 In the event that a message is awaiting a user at the time of login, the client displays one of several types of messaging dialog boxes. The specifics of the dialog box that is displayed is dependent upon the "Message Type" that awaits the user. Generally speaking, the types of messages available fall into one of two categories: generic or template. The generic message type includes marketing messages, customer support messages, etc, where the intent of the messaging is simply to communicate with the user and perhaps provide a URL link. The template message types include payment resubmission, email resubmission, and plan change notifications, where in addition to sending a message to the user the messaging dialog box allows the user to take action on the message. In one embodiment, template dialogs are hard coded into the client system to accommodate the special actions that are taken. Marketing Messages allow the provider to communicate with the user base. For example, the Marketing Message dialog box allows the provider to promote an item that is sold on their web site, and provide a URL link to that item. An example of the specific components of a marketing message are shown in FIG. 17B. In the Icon graphic, a generic Marketing Message icon appears. The text for Text box is customizable at the server. If the provider wants to associate a URL with the message, a URL link button named "More Info..." appears. The OK button closes the dialog box.

25 A Customer Service Message is preferably the same in functionality as the Marketing Message dialog box, except that the graphic icon is different. The different graphic communicates to the user that this message is a different type of message than a Marketing Message. The Customer Service dialog is designed to communicate customer support issues, as shown in FIG. 17C. A Credit Card Promotion message type, as shown in FIG. 17D allows the provider to broadcast credit card promotions to the users. The graphic icon communicates the message type to the user. In one embodiment, this graphic includes the MasterCard logo. The text on the URL link button reads "Apply Now". FIG. 17E is an exemplary dialog box for

1 Payment Resubmission Message. The Payment Resubmission Message is a template type of  
message. The purpose of this template message box is to convey to a user that a payment has  
been rejected, and facilitate a payment resubmission by the user. As illustrated in FIG. 17E, a  
5 Payment Message icon appears in the icon graphic. The Text box is dynamic, explaining the  
details of the failed transaction. The end of the message typically reads "Select OK to resubmit  
your payment," and the OK button closes the dialog box and launches the purchase postage  
screen.

Email Resubmission Message is a template type message, whose purpose is to notify a  
user when the system does not have a valid email address for him/her, and enable the user to  
10 provide this information. Exemplary elements of this type of message dialog are shown in FIG.  
17F. An Email Message icon appears in the icon graphic. The text for the Text box is static and  
the contents of the text box are shown in the graphic. An Email edit box allows the user to enter  
an email address, and the OK button closes the dialog box, and sends the user's email address  
to the server.

15 A Change in Service Plans Message (also a template type message), indicates when new  
plans are available to a user, or if the user's current plan is going to be grandfathered. This  
message dialog basically indicates the change to the user and links the user to the change plans  
dialog and to more information about change plans, if desired. Exemplary elements of this dialog  
are shown in FIG. 17G. As shown, a Service Plans Message icon appears in the icon graphic.  
20 The text for the Text box is dynamic, and displays the plan changes. This text ends with the text  
string "Select 'OK' to view the new plan, or cancel to continue. The OK button closes the dialog  
box, and opens the Change Service Plans dialog box. The Cancel button closes the dialog box  
without opening the Change Service Plans dialog box. A Message Log is created to list a history  
of the messages that a user has received. This log is accessible from the "Accounts" screen, and  
25 have the standard layout and capabilities of the other logs within the client.

The client software checks for available updates at the beginning of the installation  
routine, before any files have been installed, and at each login. At each of these times, the client  
checks for an available update. If an update is available, a dialog box appears. This dialog box  
provides a message which communicates the details of the available update, and provides a URL  
30 link to a website where the update file can be downloaded. The update file may be classified as  
either mandatory or optional. If the update is mandatory, the update is installed by the user. If  
the update is optional, the user can choose whether or not to install the file. There are no  
restrictions regarding how many update messages can be sent out, and the update message is not  
tied into the standard messaging described earlier in this document. The auto update feature is  
35 able to copy individual files so that a version can be updated without requiring a complete update.

In one embodiment, the system includes OEM branding capabilities. The system allows  
for the customization of the installation script in several ways, including the option of running  
a silent install, defining a default installation directory, and defining a default installation group.

1 The default behavior of the installation routine is to run as an application that is visible to the user, and requires user input on multiple screens during the installation process. The system provides the option of a "silent install", which installs the program files to the user's system without being visible, and without requiring user intervention. The installer is told where to  
5 install the product's files. While the user may choose to install the product in any directory location they want, the installer offers them a choice consistent with the product identity. Every product is placed in a sub-directory within the master directory. The OEM partner has the ability to provide a name for both the master directory and sub-directory into which the product is installed. Program group, or "folder", is the location in which the installer displays the product  
10 if the user does not manually choose a different one. The system allows the OEM partner to customize the Default Program Group name. The OEM partner does not have the ability, however, to change the name or associated icons of the items within the group.

The system provides the ability to co-brand the software by providing prominent partner logo placement on the main screen within the software. In one embodiment, the logo placement  
15 is in the upper left hand corner of the main screen, below the provider's logo. An example of the layout of the provider's logo and the partner logo are shown in FIG. 18. The client software provides URL links which can be defined by the OEM partner. Specifically, the client software allows URL links to be embedded within two areas of the main client screen, the provider's logo in the upper left hand corner of the main screen, and the partner logo on the main screen. The  
20 system also provides a space within the postal indicium that is designated to display a logo or slogan of the OEM partner.

The system incorporates client server technology which enables the provider to provide OEM partners with data that tracks the postage usage of customers who are using that OEM's version of the client software. The client software embeds a unique OEM identifier within each  
25 OEM version of the client software. Once a user has registered with the provider, that user is thereafter associated with the OEM that is identified within their client software. This association, as well as all tracking activities, are transparent to the user and require no additional intervention by the user. In the event that a user gets the client software through an Affiliate Partner's web site, the account number that a user is assigned will embed in it information that  
30 identifies the source Affiliate Partner. Therefore, this account number is uploaded to the Postal Server, which occurs at the end of the Registration wizard. In the case of an affiliate partnership, the tracking number is extracted from a cookie that has been downloaded onto the users computer. The details concerning formatting and requirements of the cookies are covered in a separate document.

35 A change of Address wizard is designed to help a user through the process of changing either a physical or mailing address, and the meter license ramifications that may result. An exemplary process flow of the Change of Address wizard is shown in FIG. 19A. In block 1901, the Change of Address Screen #1 serves the purpose of welcoming the user to the wizard using

1 the text as shown in FIG. 19B. Selecting "Next>" advances the user to the next screen of the wizard. In block 1902, the Change of Address Screen #2 allows the user to enter a new mailing address and/or physical address. As shown in FIG. 19C, the controls used are the same as are used in the Addresses screen of the Getting Started wizard. The only difference is in the  
5 introductory text. The client checks for a PO Box in the physical address fields. If a PO Box is provided, the error message indicates that a PO Box is not acceptable. These fields are preferably pre populated by default. In blocks 1903 and 1904, addresses are checked and in block 1905, the Change of Address Screen #23, shown in FIG. 19D, appears. This screen preferably serves the same purpose as the Submit screen of the Registration Wizard, and preferably uses the same  
10 controls. One difference is that in this case, the only information that is populated is the address information that is provided in screen #2.

Change of Address Screen #4, shown in FIG. 19E appears when a change in the meter license is not required (i.e. if the physical address hasn't changed or if the physical address hasn't resulted in a changed LPO), as shown in blocks 1906 and 1907. In this event, in block 1910, the  
15 server submits a 3601C form, and this screen appears to let the user know that the address has been successfully changed. The Change of Address Screen #5 (shown in FIG. 19F) educates the user about the process that needs to be undertaken in order to withdraw and reapply for a meter license. Selecting "Next>" prompts the user with a warning dialog box, as shown in FIG. 19G. If the user responses "Yes" to the warning, the meter is withdrawn, and "moved" is inserted into  
20 the reason for withdrawal on the 3601 C form (see block 1913), and the mailing address that is provided at the beginning of this wizard is used for the mailing of the refund check. This withdrawal should not result in a "slot" becoming available for a brand new user, as this user will re-register momentarily and take the "slot" again. If the user enters "no", the wizard is canceled.

Change of Address Screen #6 notifies the user that their meter license has been withdrawn.  
25 In addition, it prompts the user for a new user name and password. The controls used for this screen, shown in FIG. 19H, are the same as those used in the user name screen of the Getting Started wizard. The client verifies with the server that the user name is unique. The client also verifies that the password meets the preferred basic criterion for example, of 6 characters minimum, with at least 1 alphabetic character and 1 numeric character. Change of Address  
30 Screen #7 (shown in FIG. 19I) lets the user know that the final step is to go through the Registration Wizard. Selecting "Next>" launches the Registration wizard with all known fields being pre populated. In addition, the wizard preferably should not check for an available "slot", since the users are just using their existing "slot".

In one embodiment, the system includes a dialog box, which can change payment  
35 methods and be accessed from the Account screen. An exemplary interface for this screen is illustrated in FIG. 20A. This screen preferably has the same functionality as the Select Payment Method screen of the Getting Started wizard, but formatted into a dialog box format. This dialog box is dynamic. The Select Payment Method screen of the Getting Started wizard is also



1 dynamic. When the user first sees the dialog box, the only control that is available prompts the  
user for a Payment Type (i.e. Visa, MasterCard, American Express, ACH). If the user selects any  
of the credit card types, the screen dynamically builds to add the additional controls that are  
required to extract credit card information, as shown in FIG. 20B. These controls are described  
5 in the Getting Started wizard above. If the user selects ACH, then the screen builds dynamically  
to contain controls that extract the ACH information that is necessary in order for the provider  
to bill an account. The specifics on these controls are discussed within the Getting Started wizard  
above, and are integrated into the dialog box setting, as shown in FIG. 20C.

10 In one embodiment, the system allows the user to change the service plan in which the  
customer is participating. This is accomplished through several screens which have many of the  
attributes of the Service Plan screens within the Getting Started wizard. This functionality is  
accessed when the user selects "Change Service Plan" from the Accounts screen. Once the user  
selects "Change Service Plan" from the Accounts screen, the Change Plan dialog box (shown in  
FIG. 21A) appears which has controls that are similar to those found on Service Screen #7 in the  
15 Getting Started wizard with one addition. Specifically, a line of text is added at the top of the  
screen that displays the name of the Service Plan that the user is currently signed up for. Once  
the user has selected "Ok" in the Change Plan dialog box, the Change Plan Contract dialog box,  
shown in FIG. 21B, appears. This dialog box preferably uses the same controls as screen #8 in  
the Getting Started wizard (described above), and displays the contract for the new service plan  
20 that the user has selected.

If the user selects the "I Accept" radio button on the Change Plan Contract dialog box, and  
then selects "Ok", the dialog box shown in FIG. 21C appears. The purpose of this dialog box is  
to communicate to the user when the change will come into effect. Selecting "Ok" completes  
the Change of Service Plan process. If the user selects the "I do NOT Accept" radio button on  
25 the Change Plan Contract dialog box, and then selects "Ok", the dialog box of FIG. 21D appears.  
This dialog box provides a warning to the user that unless the contract is accepted, the service  
plan will not be changed. If the user selects the "Go Back" button, this dialog preferably closes  
and the Change Plan Contract dialog should appear again. If the user selects the "Cancel" button,  
the change of plans process is canceled.

30 FIG. 21E depicts a dialog box that allows users to inform the provider when their email  
account names have been changed. This dialog box is accessible from the Account screen. The  
edit box control on this screen allows the user to enter a new email address. If the user enters an  
address and selects OK, the client uploads the new email address to the server. If the user selects  
Cancel, the operation is canceled. A Change Password option in the Account Screen is provided.  
35 The dialog box that is launched from this option is updated to reflect the password functionality  
as defined in the Getting Started wizard. In one embodiment, the password screen requires a new  
password type. The preferred requirements for the new password type are that the password be  
at least 6 characters in length, have at least 1 alpha character, and at least 1 numeric character.

1 A password recovery function allows a user to get a new password in the event that it is forgotten. This process does not require the user to interface with Customer Service. This process relies upon the secret code or key word phrase that the user provided in Service Screen #4 of the Getting Started (at the end of the Getting Started wizard, this keyword is uploaded to  
5 the server and stored as part of the user's personal profile).

The initial login screen provides the interface whereby the users typically inputs their passwords. If a user enters incorrect information, a message such as the one shown in FIG. 22A appears. As an added measure of security, if the user enters incorrect information ten times, the system keeps showing the user the above message even if the user enters the correct information.  
10 The user is forced to close and re-open the client to try again (although they won't know this) or contact Customer Support. If the user enters the information correctly, the confirmation message shown in FIG. 22B is displayed. The "OK" button closes the client. If the user never receives the email or the letter, they preferably have to repeat the process to have a new password sent out. The Customer Support (CS) Manager is able to modify the text of the Reset Sample email by  
15 going through normal operational email update procedures.

Once the user gets the temporary password, the user uses it to log in as normal. Once the server verifies that the password is valid, an additional check is made to determine whether the password that is provided is a temporary or long term password. If the password is a temporary password, then the client software launches the change password dialog box, and does not allow  
20 the box to be closed until the user enters the old password and a new one. A Message Log lists a history of the messages that a user has received from the provider. This log is accessible from the "Accounts" screen, and have the standard layout and capabilities of the other logs within the client.

FIG. 23 is an exemplary interface for a Withdraw Meter dialog box. Reason for  
25 withdrawal combo box allows the user to select a reason why he/she is withdrawing the meter. The user can type in their own response or select from any of the following standard responses; too expensive, difficulty connecting, too much lost postage due to printing mistake, no support for windowed or pre-addressed envelope, incompatibility with other software, requires printing of address and 'stamp' together, no longer have significant mail volume, poor customer support, and the like. Future Products used combo box helps better understand why customers are  
30 terminating the provider's service. Specifically, this control allows the user to indicate what postal solution he/she will use in the future. The user can type in a response or select from the following: regular stamps, postage meter, or alternative Internet Postage product. A prompt appears in the combo box that reads "<type in or select one>", if the user chooses to type in a  
35 response. Address fields define where the refund check will go. These fields are pre-populated with the user's mailing address, but the user can make any desired changes to the address. Once all of these fields are filled in, selecting the OK button submits a request to withdraw a meter to

1 the server. The server processes the appropriate withdrawal forms to the USPS on the user's behalf.

5 A Postal Meter License wizard is also provided. This option within the Options screen launches the new Registration wizard (which is a subset of the Getting Started wizard). The specific screens that make up the Registration wizard are shown in the process flow of FIG. 24. The screens numbers in the process flow of FIG. 24 refer to screens of FIGs. 10B-10O of the Getting Started wizard portion of this document. In order to change an address, the user selects the Change of Address wizard.

10 A Setup Digital Scales option is also provided. This new option launches the Setup Digital Scale dialog box shown in FIG. 25A. This dialog box is used to select and configure digital scales. In this dialog box, Select a Scale combo box allows the user to select from a list of supported digital scales. This list checks for all scales that are supported, such as the Weightronics™ digital scale. Select COM port combo box allows the user to select which COM port the digital scale is attached to. The list includes all of COM ports on the user's system. Web Link button links the user to provider's site. The test button runs a test to make sure that the communication to the selected scale on the selected COM port is functional. If the test successfully communicates with the scale, the dialog shown in FIG 25B appears. If the test is unsuccessful, the dialog box shown in FIG. 25C appears. The system supports the calculation of postal rates based upon zones. As a result, the system is able to support Express and Priority mailings. The implications of zone based postage are discussed in the printing section of this document.

15 Every "View History" dialog box adds print functionality, so that historical reports can be printed. Specifically, the View Postage Purchase History, View Postage Printed History, and View Messages History all add a Print button at the bottom of the screen. The number of events that are printed is defined by the purge control, which also controls the number of items that are displayed.

20 It will be recognized by those skilled in the art that various modifications may be made to the illustrated and other embodiments of the invention described above, without departing from the broad inventive scope thereof. It will be understood therefore that the invention is not limited to the particular embodiments or arrangements disclosed, but is rather intended to cover any changes, adaptations or modifications which are within the scope and spirit of the invention as defined by the appended claims.

## WHAT IS CLAIMED IS:

1. An on-line system for printing a value bearing item (VBI) comprising:  
a client subsystem for interfacing with a user comprising;  
a graphical user interface (GUI) for installing software for printing the VBI;  
a GUI for registering the user in the system; and  
a GUI for managing the printing of the VBI; and  
a server subsystem capable of communicating with the client subsystem over a computer network for authorizing the client subsystem to print the VBI.
2. The system of claim 1, wherein the VBI bears postage value.
3. The system of claim 1, wherein the VBI is a ticket.
4. The system of claim 1, wherein the VBI is one or more of a coupon, a currency, a voucher, and a check.
5. The system of claim 1, wherein the client subsystem further comprises a GUI for specifying a payment method.
6. The system of claim 1, wherein the client subsystem further comprises a GUI for making changes to the user's information.
7. The system of claim 1, wherein the client subsystem further comprises a GUI for displaying the user information including an account information.
8. The system of claim 7, wherein the account information includes an amount of credit left in the account.
9. The system of claim 1, wherein the client subsystem further comprises a GUI for specifying an address book from a plurality of address books so that the system can use the address book to print addresses.
10. The system of claim 1, wherein the client subsystem further comprises a GUI for entering a password so that the server subsystem can store the entered password and verify the password.
11. The system of claim 1, wherein the server subsystem includes an address matching module for verifying an address entered by the user.

- 1 12. The system of claim 1, wherein the GUI for installing software comprises of a GUI for the user to specify the type of connection to the computer network.
- 5 13. The system of claim 1, wherein the GUI for installing software comprises of a GUI for reporting error messages to the user.
14. The system of claim 1, wherein the GUI for installing software comprises of a GUI for canceling an installation process.
- 10 15. The system of claim 1, wherein the GUI for registering the user comprises of a GUI for entering user information.
- 15 16. The system of claim 1, wherein the GUI for registering the user comprises of a GUI for offering the user a plurality of service plans and for selecting by the user a service plan of choice.
17. The system of claim 1, wherein the GUI for registering the user comprises of a GUI for reporting error messages to the user.
- 20 18. The system of claim 1, wherein the GUI for registering the user comprises of a GUI for canceling a registration process.
19. The system of claim 1, wherein the GUI for managing the printing comprises of a GUI for displaying a graphical image of the VBI.
- 25 20. The system of claim 1, wherein the GUI for managing the printing comprises of a first GUI for printing a quality assurance VBI.
- 30 21. The system of claim 20, further comprising a second GUI for displaying selectable choices of a printed quality assurance VBI.
22. The system of claim 1, wherein the GUI for managing the printing comprises of a GUI for troubleshooting selected printing options.
- 35 23. The system of claim 1, wherein the GUI for managing the printing comprises of a GUI for providing envelope options.
24. The system of claim 1, wherein the GUI for managing the printing comprises of a GUI for providing label options.

1           25.    The system of claim 1, wherein the GUI for managing the printing comprises of a GUI for providing postage options.

5           26.    The system of claim 1, wherein the GUI for managing the printing comprises of a GUI for reporting error messages to the user.

          27.    The system of claim 1, wherein the GUI for managing the printing comprises of a GUI for canceling a print process.

10          28.    The system of claim 5 further comprising a GUI for displaying credit card information fields to be filed by the user when the user specifies a credit card for the payment method.

15          29.    An interactive online postage printing system comprising:  
          an installation wizard including a graphical user interface (GUI) for downloading and installing software for postage printing from a server connected to a computer network;  
          a registration wizard including a GUI for facilitating the registration of a user with the system; and  
          a printing wizard including a GUI for facilitating printing of a postage indicium.

20          30.    The system of claim 29, wherein the registration wizard includes a GUI for specifying a payment method.

25          31.    The system of claim 30 further comprising a GUI for displaying credit card information fields to be filled by the user.

          32.    The system of claim 29, wherein the registration wizard includes a GUI for making changes to the user's information.

30          33.    The system of claim 29, wherein the registration wizard includes a GUI for displaying the user information including an account information.

          34.    The system of claim 33, wherein the account information includes an account balance.

35          35.    The system of claim 29, wherein the installation wizard includes a GUI for specifying an address book so that the system can use the address book to print addresses.

1       36. The system of claim 29, wherein the registration wizard includes a GUI for entering a password so that the server can store the entered password and verify the password.

5       37. The system of claim 29, wherein the server includes an address matching database for verifying an address entered by the user.

      38. The system of claim 29, wherein the installation wizard includes a GUI for the user to specify the type of connection to the computer network.

10       39. The system of claim 29, wherein the installation wizard includes a GUI for reporting error messages to the user.

      40. The system of claim 29, wherein the installation wizard includes a GUI for canceling an installation process.

15       41. The system of claim 29, wherein the registration wizard includes a GUI for entering user information.

20       42. The system of claim 29, wherein the registration wizard includes a GUI for offering the user a plurality of service plans and selecting by the user a service plan of choice.

      43. The system of claim 29, wherein the registration wizard includes a GUI for reporting error messages to the user.

25       44. The system of claim 29, wherein the printing wizard includes a GUI for displaying a graphical image of a sample postage on an envelope.

      45. The system of claim 29, wherein the printing wizard includes a first GUI for printing a quality assurance VBI.

30       46. The system of claim 45, further comprising a second GUI for displaying selection choices of the shape of a printed quality assurance postage sample.

35       47. The system of claim 29, wherein the printing wizard includes a GUI for troubleshooting selected printing options.

      48. The system of claim 29, wherein the printing wizard includes a GUI for providing envelope options.

1           49.    The system of claim 29, wherein the printing wizard includes a GUI for providing label options.

5           50.    The system of claim 29, wherein the printing wizard includes a GUI for providing postage options.

          51.    The system of claim 29, wherein the printing wizard includes a GUI for reporting error messages to the user.

10          52.    A method for printing a value bearing item (VBI) over a computer network having a client system and a server system, the method comprising the steps of:  
          displaying a first GUI by the client system for registering a user;  
          establishing communication with the server via the network;  
          entering user information in the first GUI; and  
15          communicating the entered user information to the server;

          53.    The method of claim 52 further comprising the steps of:  
          displaying a second GUI by the client system including printing options for managing the printing of the VBI;  
20          selecting one or more printing options from the second GUI; and  
          printing the VBI according to the selected one or more printing options.

          54.    The method of claim 53, wherein the step of printing the VBI comprises printing a postage value.

25          55.    The method of claim 53, wherein the step of printing the VBI comprises printing a ticket.

30          56.    The method of claim 53, wherein the step of printing the VBI comprises printing one or more of a coupon, a currency, a voucher, and a check.

          57.    The method of claim 52 further comprising displaying a third GUI for installing software for printing the VBI.

35          58.    The method of claim 52, wherein the step of displaying a first GUI comprises displaying a GUI for specifying a payment method.

          59.    The method of claim 52, wherein the step of displaying a first GUI comprises displaying a GUI for making changes to the user's information.



1           60.    The method of claim 52, wherein the step of displaying a first GUI comprises displaying a GUI for displaying the user information including an account information.

5           61.    The method of claim 60, wherein the account information includes an account balance.

          62.    The method of claim 52, further comprising the step of displaying a third GUI for specifying an address book so that the system can use the address book to print addresses.

10          63.    The method of claim 52, further comprising the step of displaying a third GUI for entering a password so that the server system can store the entered password and verify the password.

15          64.    The method of claim 52, further comprising the step of verifying an address by the server system entered by the user.

          65.    The method of claim 52, wherein the step of displaying a first GUI comprises displaying a GUI for offering the user a plurality of service plans and selecting by the user a service plan of choice.

20          66.    The method of claim 52, wherein the step of displaying a first GUI comprises displaying a GUI for reporting error messages to the user.

25          67.    The method of claim 52, wherein the step of displaying a first GUI comprises displaying a GUI for canceling a registration process.

          68.    The method of claim 53, wherein the step of displaying a second GUI comprises displaying a GUI for displaying a graphical image of the VBI.

30          69.    The method of claim 53, wherein the step of displaying a second GUI comprises displaying a QA GUI for printing a quality assurance VBI.

          70.    The method of claim 69, further comprising displaying a third GUI for displaying selectable choices of the shape of a printed sample VBI.

35          71.    The method of claim 53, wherein the step of displaying a second GUI comprises displaying a GUI for troubleshooting selected printing options.

1           72.    The method of claim 53, wherein the step of displaying a second GUI comprises displaying a GUI for providing envelope options.

5           73.    The method of claim 53, wherein the step of displaying a second GUI comprises displaying a GUI for providing label options.

          74.    The method of claim 53, wherein the step of displaying a second GUI comprises displaying a GUI for providing postage options.

10          75.    The method of claim 53, wherein the step of displaying a second GUI comprises displaying a GUI for reporting error messages to the user.

          76.    The method of claim 53, wherein the step of displaying a second GUI comprises displaying a GUI for canceling a print process.

15          77.    The method of claim 52, further comprising the step of displaying a second GUI for the user to withdraw the user's account.

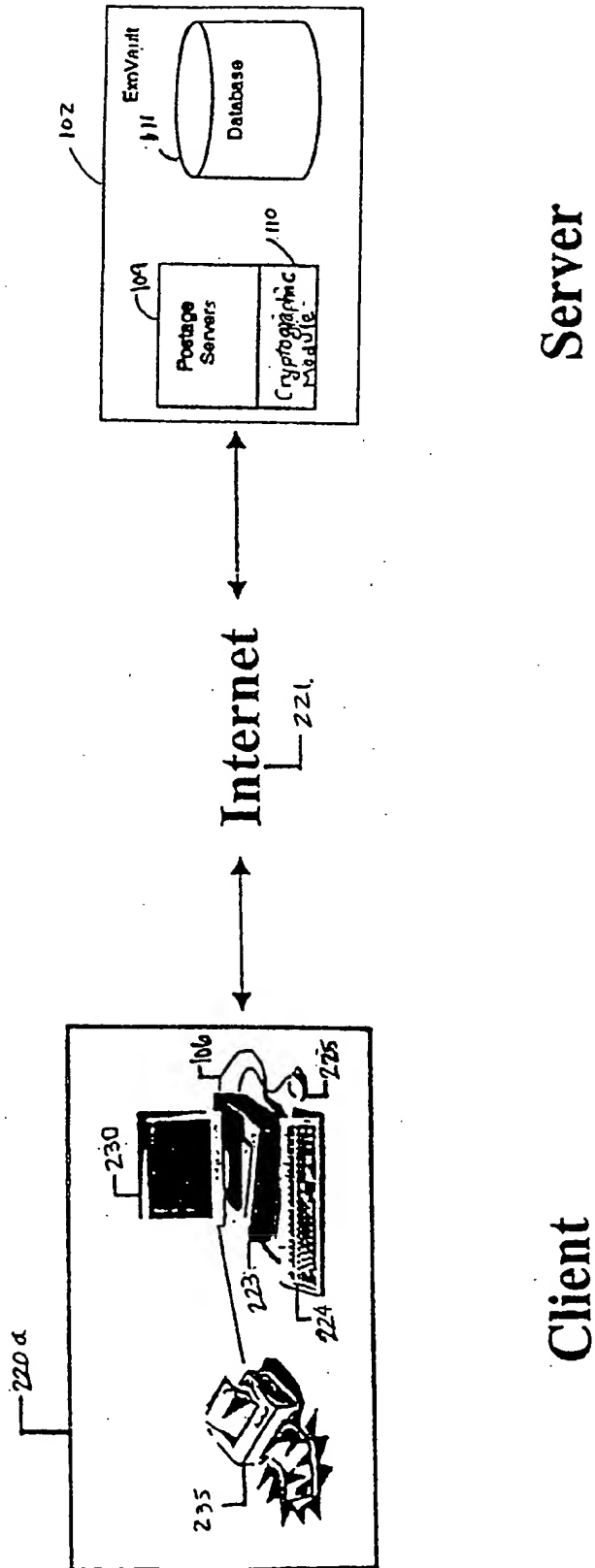
20          78.    The method of claim 52, further comprising the step of displaying a second GUI for communicating a message to the user.

          79.    The method of claim 53, wherein the step of selecting one or more printing options comprises the steps of:

25           prompting the user to place an envelope in a printer;  
          displaying a plurality of patterns, wherein only one of the plurality of patterns completely prints onto the envelope fed through the printer;  
          selecting one of the plurality of displayed patterns based upon which pattern appears to the user; and  
          ascertaining if the printer feeds envelopes from the top, center, or bottom based on the  
30           selected pattern.

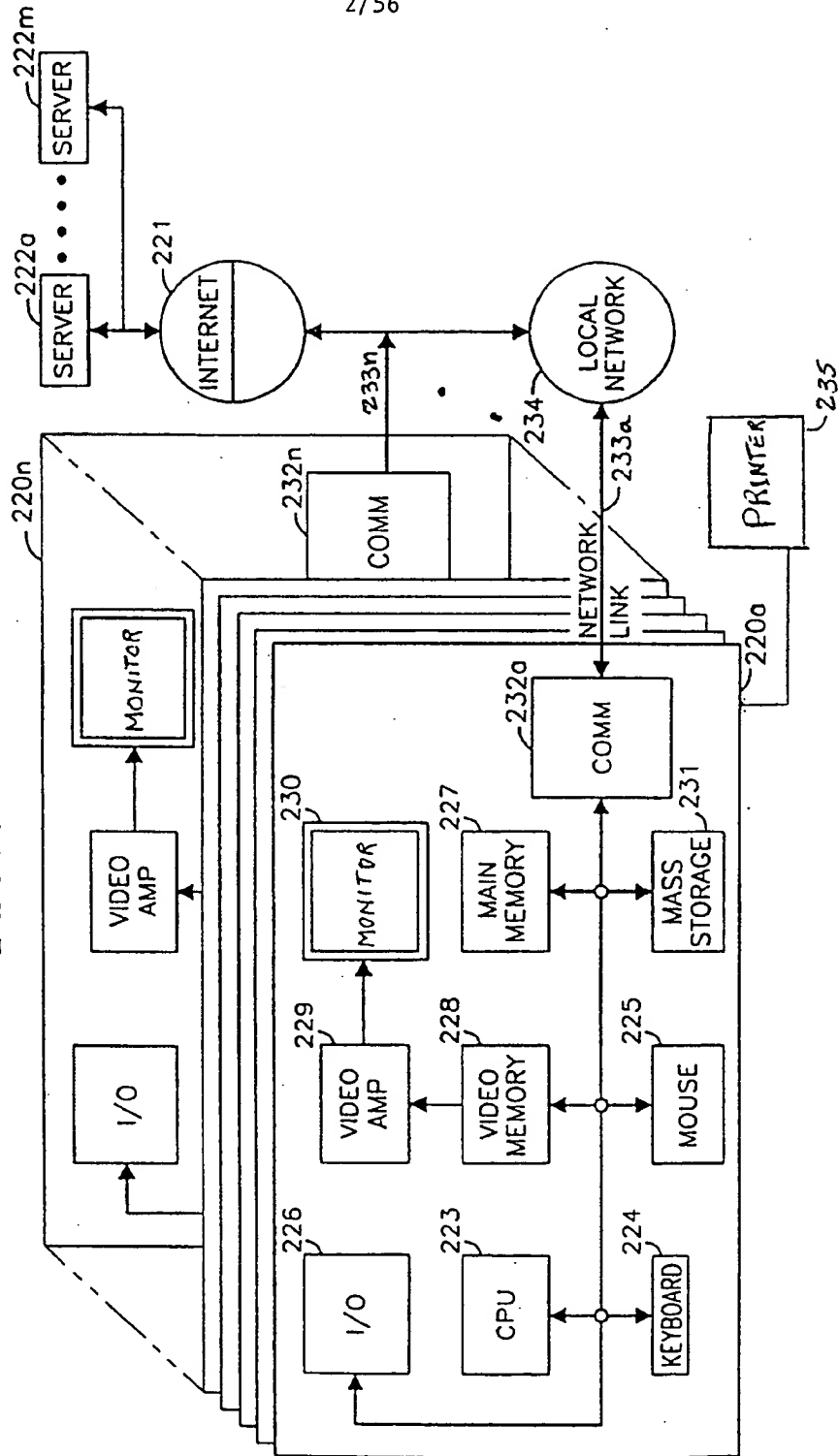
35

FIG. 1



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FIG. 2



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## Install Wizard

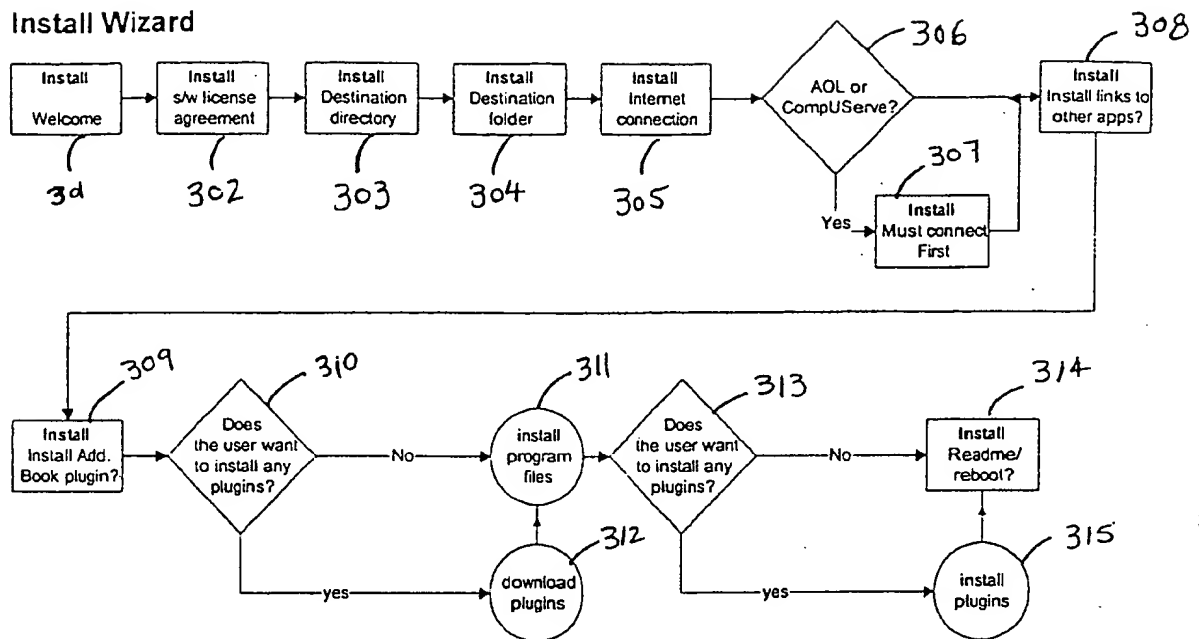


FIG. 3

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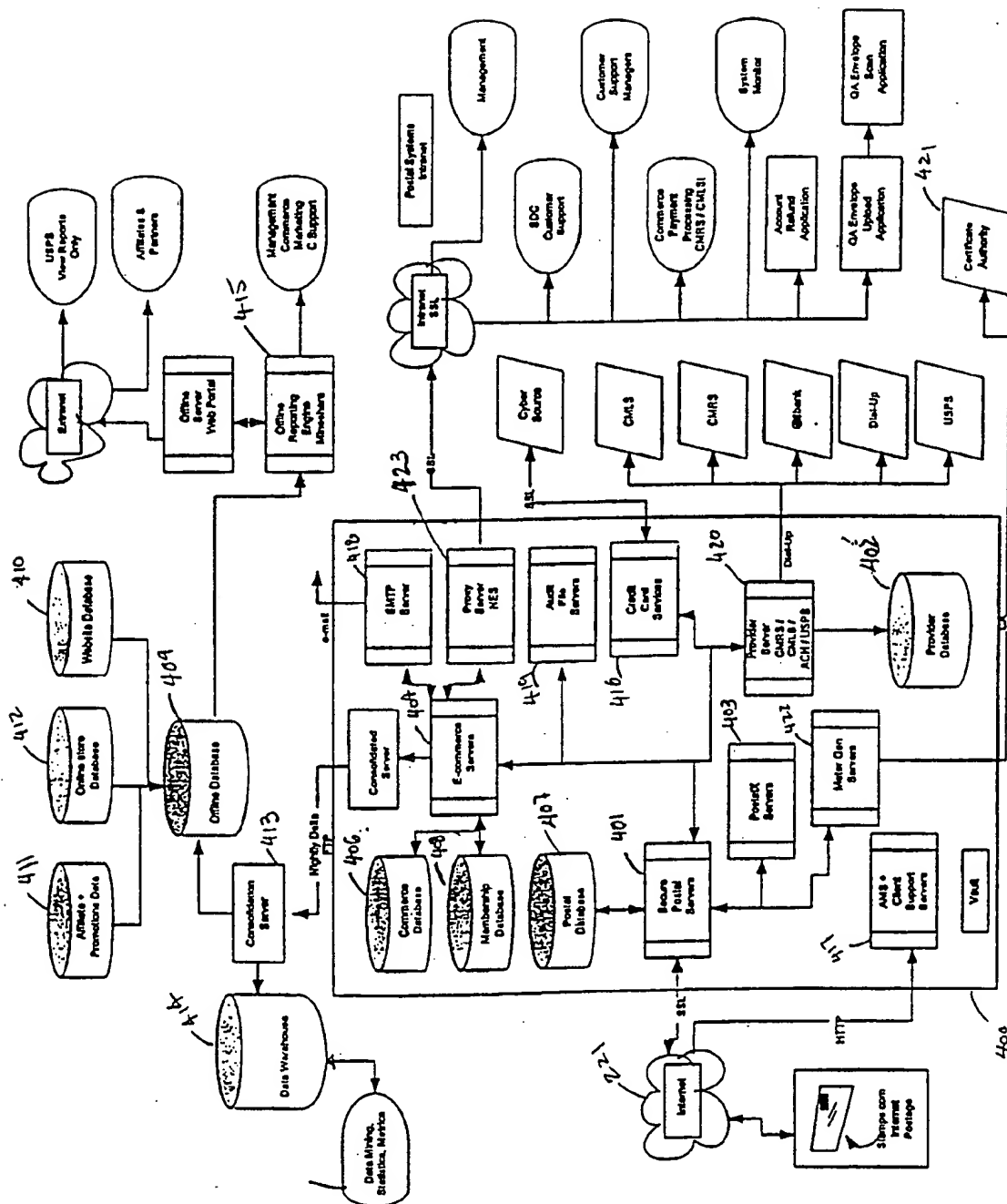


FIG. 4

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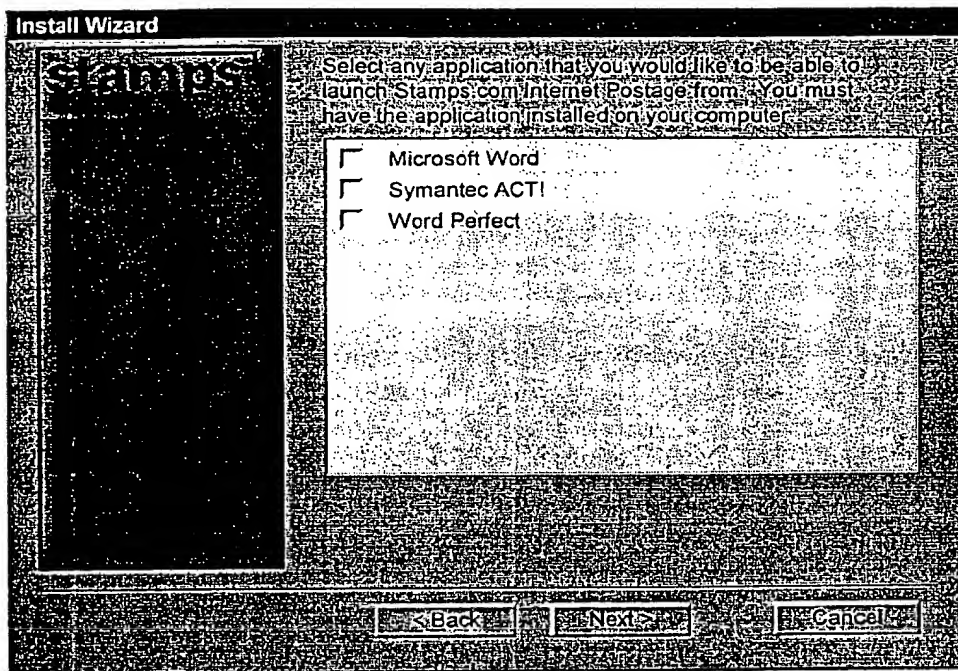


FIG. 5A

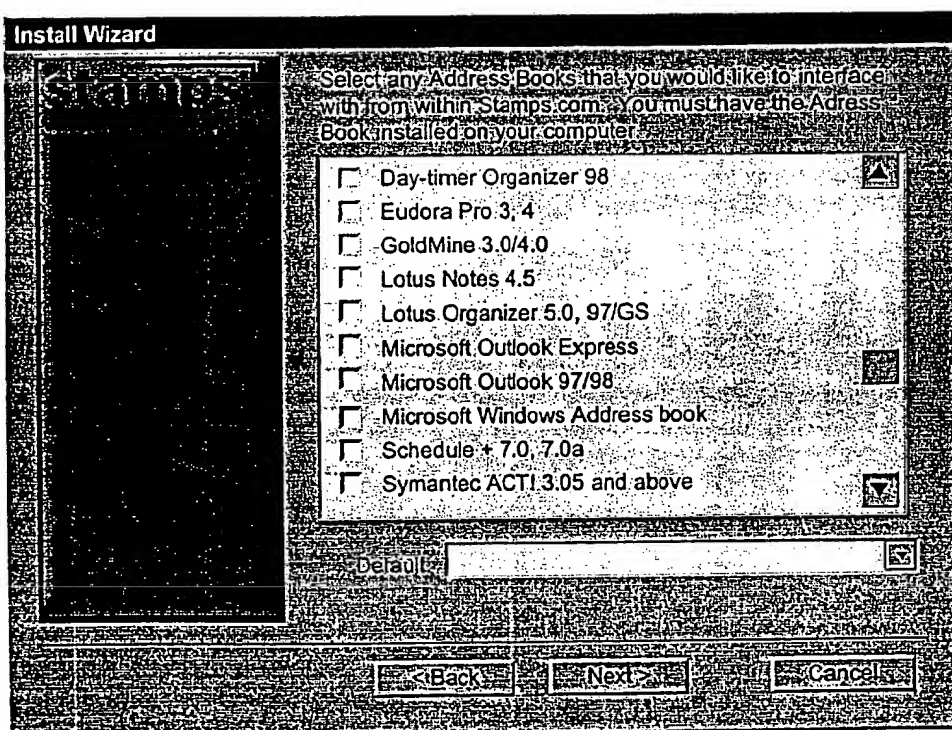


FIG. 5B

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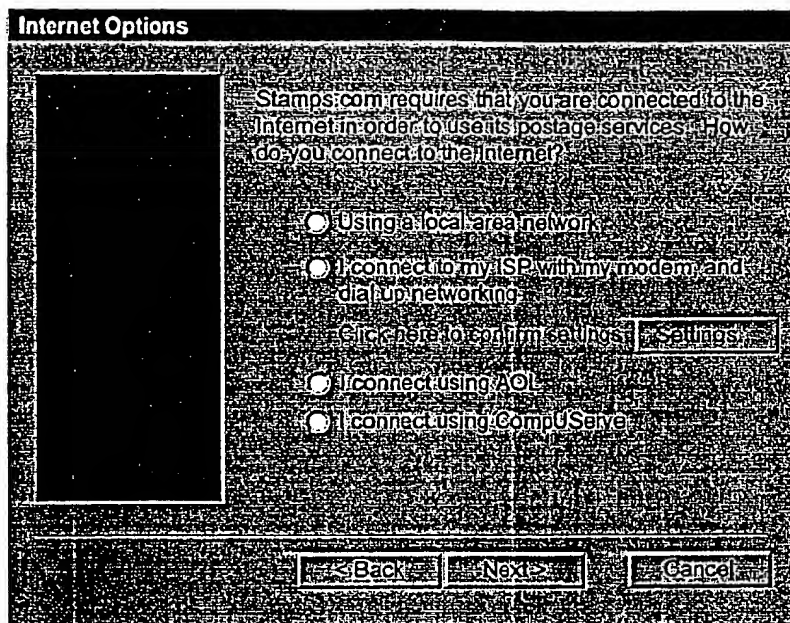


FIG. 6A

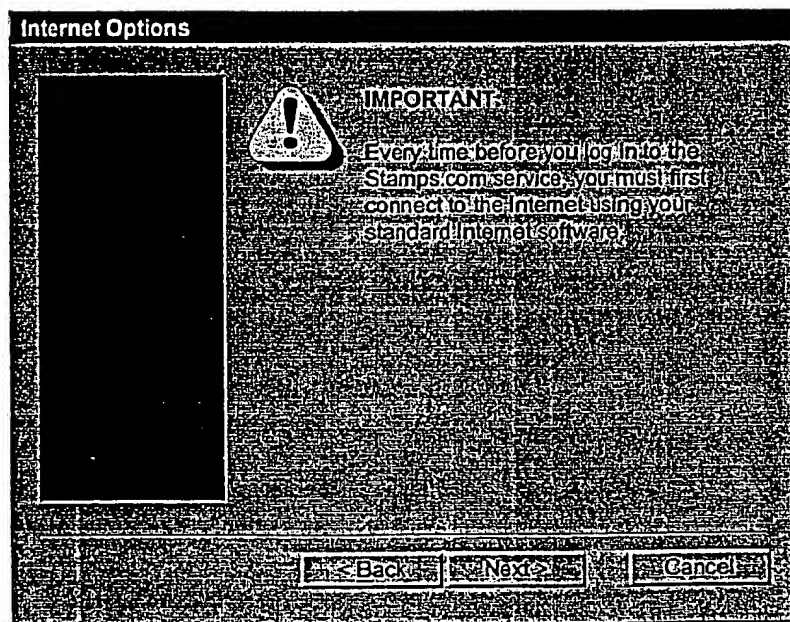


FIG. 6B



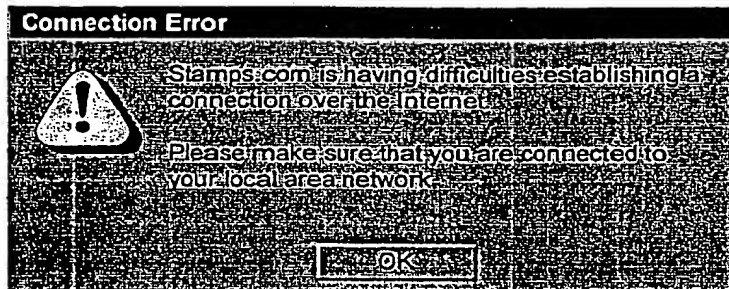


FIG. 6C

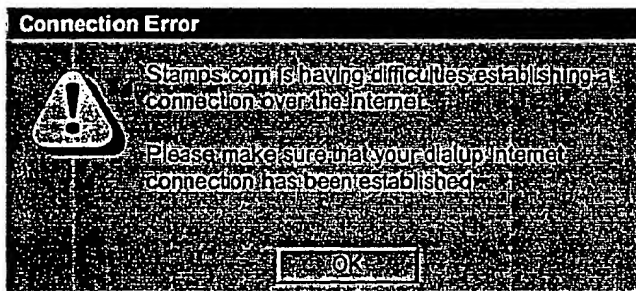


FIG. 6D

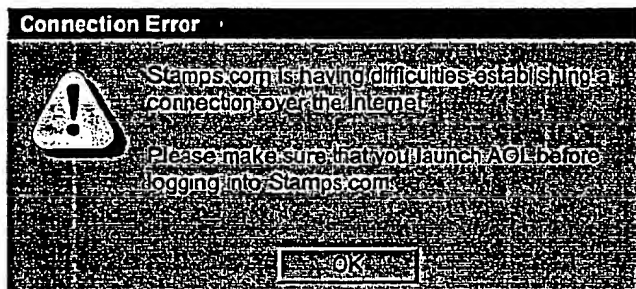


FIG. 6E

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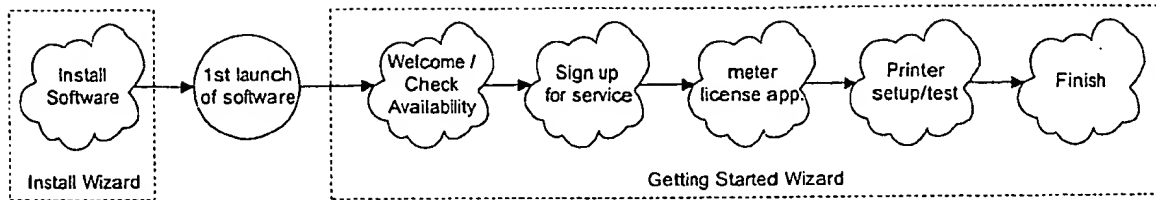


FIG.7A

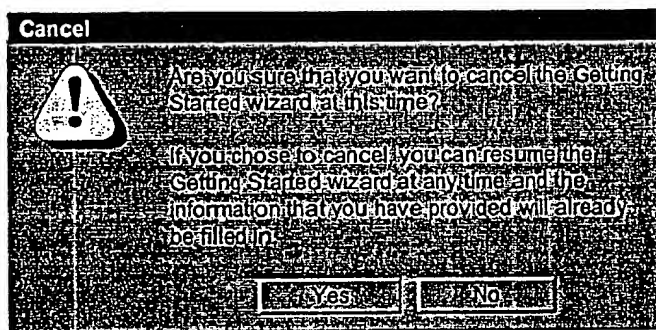
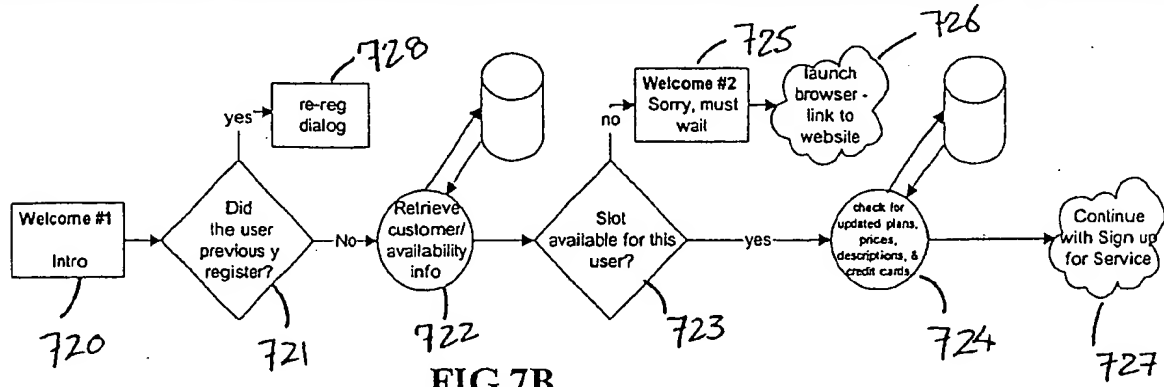


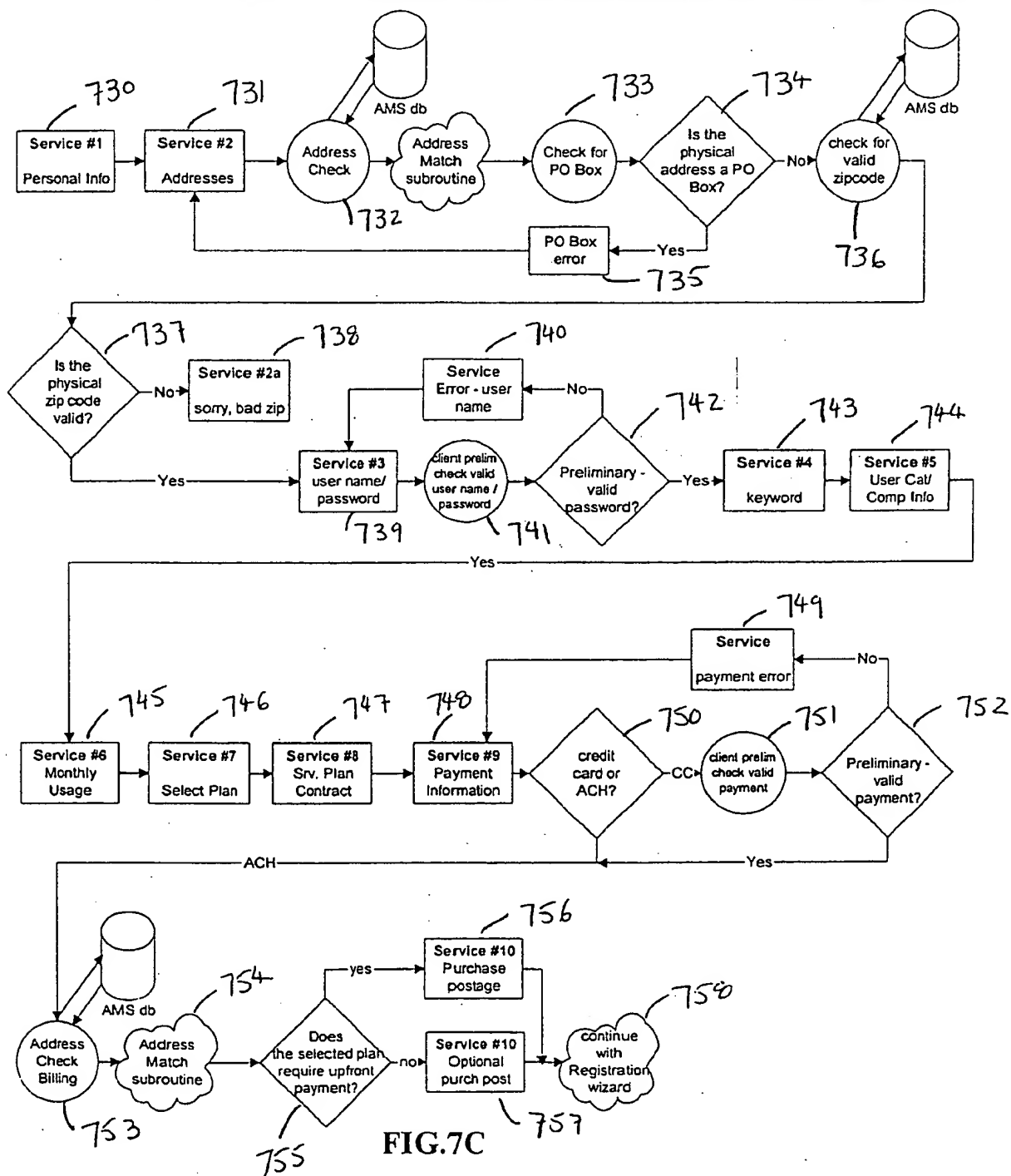
FIG.7D

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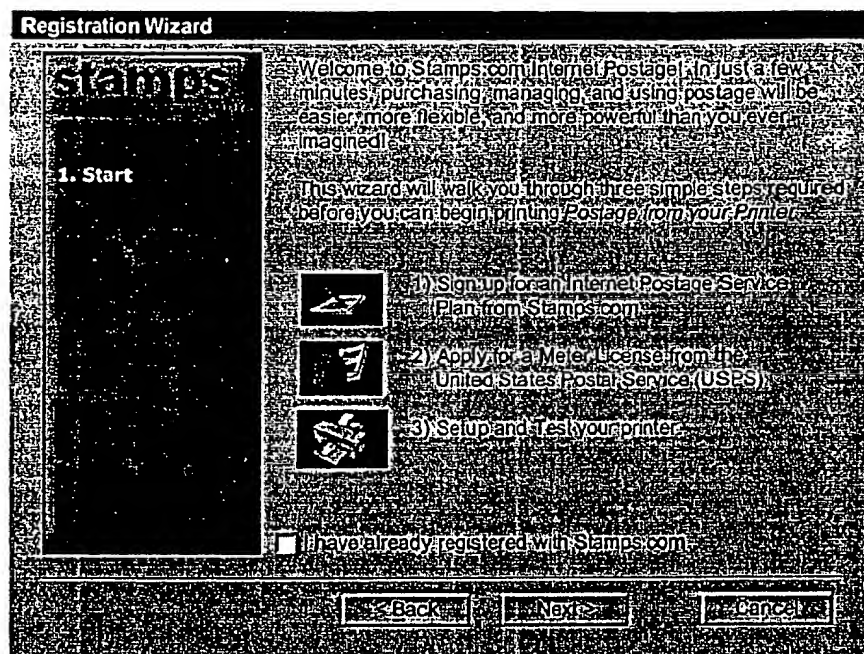
**Getting Started Wizard - Welcome**

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## Getting Started Wizard: Sign up for Service

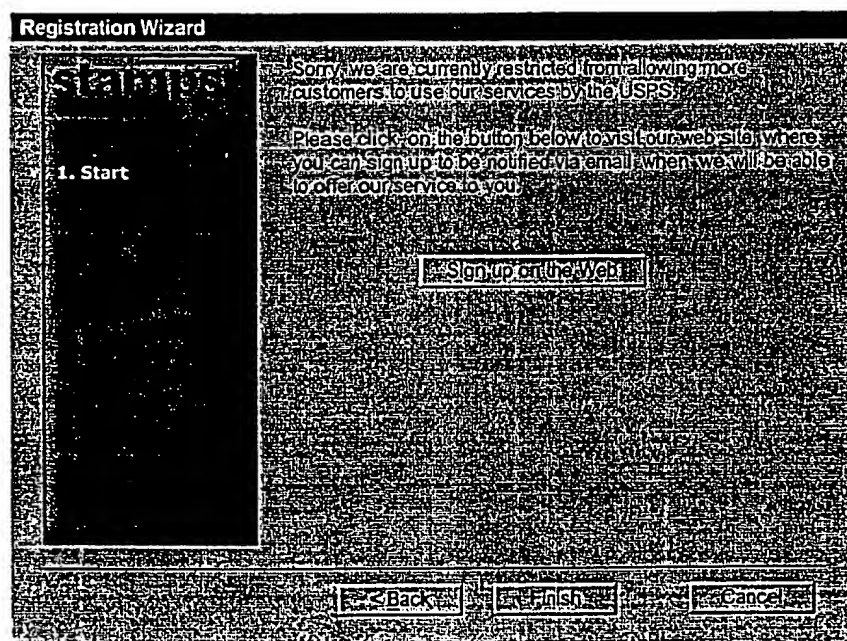


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Welcome #1  
Intro 1

FIG.8A




Welcome #2  
Sorry, must  
wait

FIG.8B

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**Registration Wizard**

**stamps.com**  **Service Sign Up**

First you will need to register with Stamps.com and sign up for an Internet Postage Service Plan.

Please fill in the personal information on the following pages for use in this registration process.

First Name:  Middle Initial:

Last Name:

Phone:  Fax:

Email:


*Stamps.com will send all invoices via email, so please be sure this email account is one you check often.*

☒ Send me information about Stamps.com and its partners.

Service #1  
Personal info

FIG. 9A

**Registration Wizard**

**stamps.com**  **Service Sign Up**

Please enter the physical address where this computer is located.

Address:

City:

State:

Please provide your mailing address.

☒ Use physical address

Address:

City:

State:

Service #2  
Addresses

FIG. 9B

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**Registration Wizard**

**stamps**  
com

2: Register with  
Stamps.com

Sorry, Internet Postage is not yet available in your zip code.  
Please click on the button below to visit our web site, where  
you can sign up to be notified via email when we will be able  
to offer our service to you.

Service #2a  
Sorry, bad zip

FIG. 9C

**Registration Wizard**

**stamps**  
com

**Service Sign Up**

2: Register with  
Stamps.com

Every time that you log into the Stamps.com service, you will need to  
provide a unique user name and password in order to protect your  
account. Enter a user name.

User Name:

Please select a password. Your password must be at least 6  
characters in length, and contain at least one letter and one number.

Password:


Retype Password:

Service #3  
User name/  
pass

FIG. 9D

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**Registration Wizard**

**stamps.com**  **Service Sign Up**

**2. Register with Stamps.com**

Please select one of the questions below that only you would know the answer to, and then enter an answer in the form of either a word or phrase.

This secret code will be used to retrieve your password if you ever lose it.


Select a question:

Enter your secret code response:

Service #4  
enter key  
word

FIG. 9E

**Registration Wizard**

**stamps.com**  **Service Sign Up**

**2. Register with Stamps.com**

In order to help Stamps.com better service your unique postage needs, please supply us with the following information:

Select which category best describes how you will use this service:

☒ Personal / Individual use  
☐ Home office (Corporate Work, Telecommuting)  
☐ Home-Based Business  
☐ Office-Based Business

Enter your company information below:

Company Name:   
 # of Employees:   
 Industry SIC Code:


Service #5  
User cat/  
comp. info

FIG. 9F



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**Registration Wizard**

**stamps.com**  **Service Sign Up**

On average, how much do you spend on postage each month?  
 (Postage includes USPS classes of mail: First Class, Priority, & Express, but does not include non-USPS overnight/package delivery services such as FedEx or UPS)

Do you currently lease or rent a traditional postage meter?  
☐ Yes ☐ No


Estimate the percentage of each type of mail that you send:

100	Letters (standard envelopes)
0	Letters (window/preprinted envelopes)
0	Flats (magazines/unfolded letters)
0	Parcels (boxes)

Service #6  
monthly  
usage

FIG. 9G

**Registration Wizard**

**stamps.com**  **Service Sign Up**

Stamps.com offers a variety of Internet Postage Service Plans from which you can choose. Each plan offers different benefits, and each has a different convenience fee structure.


Select a Service Plan:

Service Plan Descriptions:

Service #7  
Select plan

FIG. 9H

**Registration Wizard**

**stamps.com**  **Service Sign Up**

**1. Start**

**2. Register with Stamps.com**

Please read the Service Plan contract below and indicate whether or not you accept its terms.


☐ I Accept ☐ I do NOT Accept

**< Back** **Next >** **Cancel**

Service #8  
Srv Plan  
agreement

FIG. 9I

**Service Plan Contract**

 You cannot complete the Registration process unless you agree to the terms of the Service Plan Contract. Would you like to Go Back and review the contract again or cancel the change of Service Plans?

**Go Back** **Cancel**

FIG. 9J

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**Registration Wizard**

**Stamps.com** **Service Sign Up**

Please select a means of payment to be used for both the purchase of postage and for the payment of convenience fees.

Payment Type:

2. Register with Stamps.com

< Back Next > Cancel

Service #9  
payment info  
nothing selected  
mode

FIG. 9K

**Registration Wizard**

**Stamps.com** **Service Sign Up**

Please select a means of payment to be used for both the purchase of postage and for the payment of convenience fees.

Payment Type:

Cardholder Name:

Card #:

Exp. Date: month:  year:

Please provide your billing address for this account.

☐ Use Mailing address

Address:

City:

State:  Zip:

2. Register with Stamps.com

< Back Next > Cancel

Service #9 a  
payment info  
credit card  
selected mode

FIG. 9L

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Registration Wizard

**Stamps.com** Service Sign Up

Please select a means of payment to be used for both the purchase of postage and for the payment of convenience fees.

Payment Type:

Name on Acct:

ABA Routing #:

Account #:

Bank Name:

Account Type: ☐ Checking ☐ Savings

< Back Next > Cancel

Service #9b  
payment info  
ACH selected mode

FIG. 9M

Registration Wizard

**Stamps.com** Service Sign Up

Before you can begin printing postage, you need to have a balance of postage in your account.

How much postage would you like to purchase at this time?

☐ \$10 ☐ \$25 ☐ \$50 ☐ \$100 ☐ \$200 ☐ Other

< Back Next > Cancel

Service #10  
purchase  
postage

FIG. 9N

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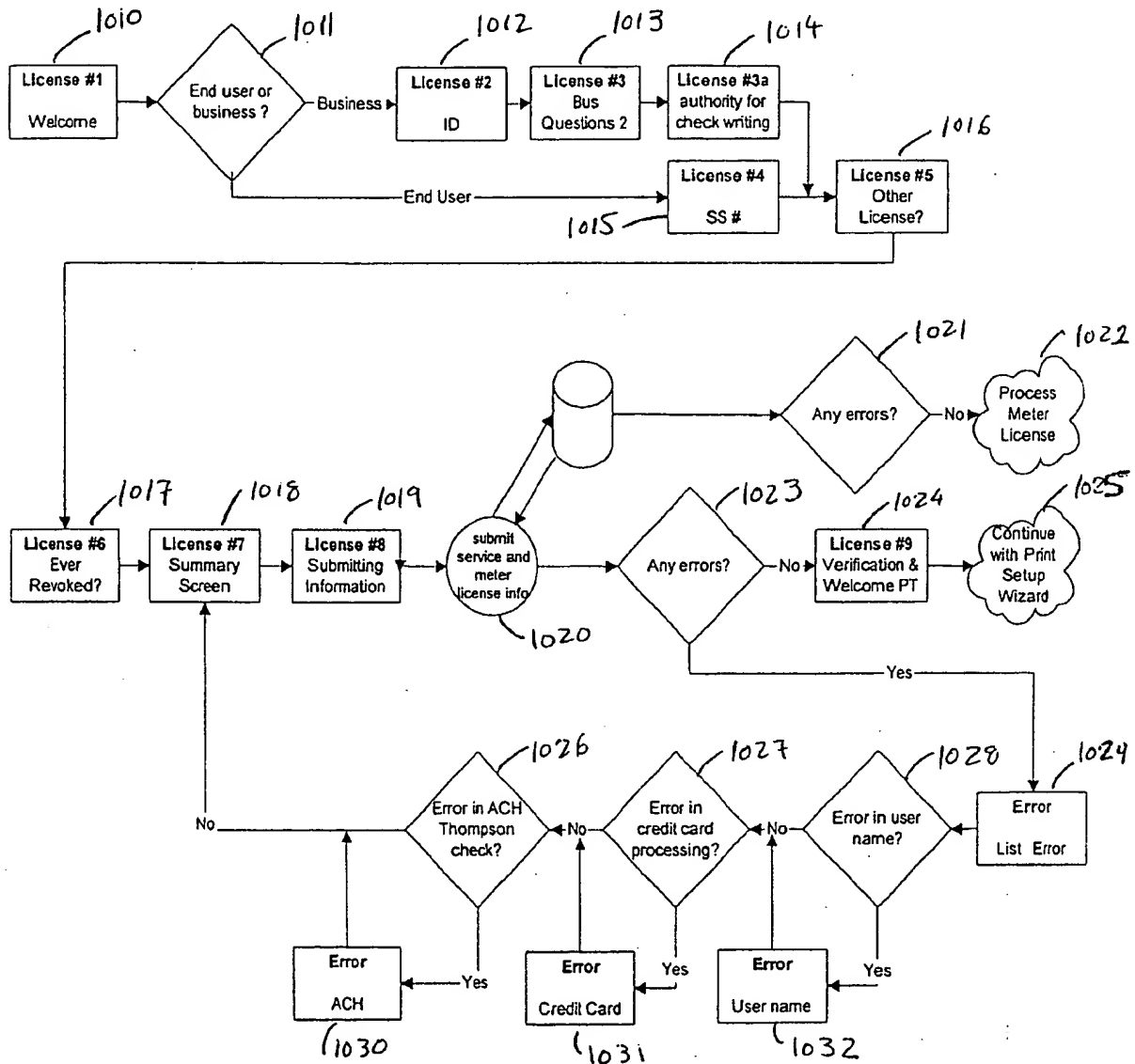
**Getting Started Wizard: Registration Wizard component**

FIG. 10A

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Registration Wizard

UNITED STATES POSTAL SERVICE

Meter License Application

In the next step, this wizard will assist you in submitting a Meter license application with the USPS.

*This process generates an official USPS Meter License Application form and must therefore be responded to with complete accuracy.*

3. Apply for a postal meter

Back Next Cancel

License #1  
Verification &  
Welcome ML

FIG. 10B

Registration Wizard

UNITED STATES POSTAL SERVICE

Meter License Application

Enter a business identification number for your company. First, select a type of business identification number and then enter that number for your company.

☐ Tax ID #

☐ EIN

☐ Social Security #

3. Apply for a postal meter

Back Next Cancel

License #2  
license ID

FIG. 10C

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Registration Wizard

UNITED STATES POSTAL SERVICE

Meter License Application

3. Apply for a postal meter

Does your business anticipate metered mail discounts?

☐ Yes ☐ No

Does your business have an authorization to use postal marks at this or any other Post Office?

☐ Yes ☐ No

Does your business prepare and/or mail for other third parties?

☐ Yes ☐ No

Back Next Cancel

License #3  
Bus. questions 2

FIG. 10D

Registration Wizard

UNITED STATES POSTAL SERVICE

Meter License Application

3. Apply for a postal meter

Are you a corporate officer or a person who has express authority within your corporation/business to sign checks?

☐ Yes ☐ No

Represent the following information about your business and authority:

Business Name:  with capital letters

Business Address:

City:

State:

Zip:

Phone:

Back Next Cancel

License #3a  
authority for  
check writing

FIG. 10E



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Registration Wizard

UNITED STATES POSTAL SERVICE

Meter License Application

The USPS requires that you provide your Social Security number in order to process your Meter License request.

Social Security Number

3. Apply for a postal meter

Back Next Cancel

License #4  
Social Security #

FIG. 10F

Registration Wizard

UNITED STATES POSTAL SERVICE

Meter License Application

Do you currently hold any other USPS meter licenses at this or any other Post Office?

☐ Yes ☒ No

Please enter the other postage meter licenses you hold:

License Number	License Number
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

3. Apply for a postal meter

Back Next Cancel

License #5  
other license?

FIG. 10G



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Registration Wizard

UNITED STATES POSTAL SERVICE

Meter License Application

Have you ever had a postage meter/license revoked?

☒ Yes ☐ No

Before submitting your Meter License Application please review the answers you provided for accuracy. The USPS requires that all information submitted is accurate.

If any information is incorrect, select the Back button to return to the appropriate screen and change the information.

3. Apply for a postal meter

Back Next Cancel

License #6  
ever revoked?

FIG. 10H

Registration Wizard

UNITED STATES POSTAL SERVICE

Meter License Application

Before submitting your Meter License Application please review the answers you provided for accuracy. The USPS requires that all information submitted is accurate.

If any information is incorrect, select the Back button to return to the appropriate screen and change the information.

Applicant's Name (mark as star)

Physical Address

28341 LA BAYADA  
LAGUNA NIGUEL, CA 92677-7057

Mailing Address

28341 LA BAYADA  
LAGUNA NIGUEL, CA 92677-7057

I verify that the information shown is truthful and accurate.

3. Apply for a postal meter

Back Submit Now Cancel

License #7  
Submit

FIG. 10I

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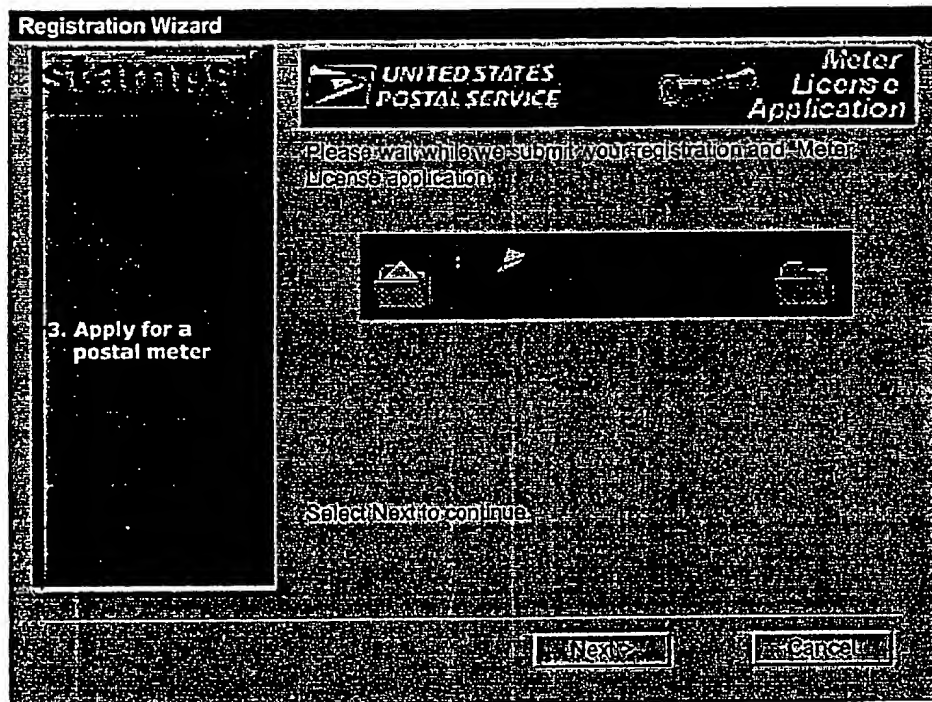


FIG. 10J

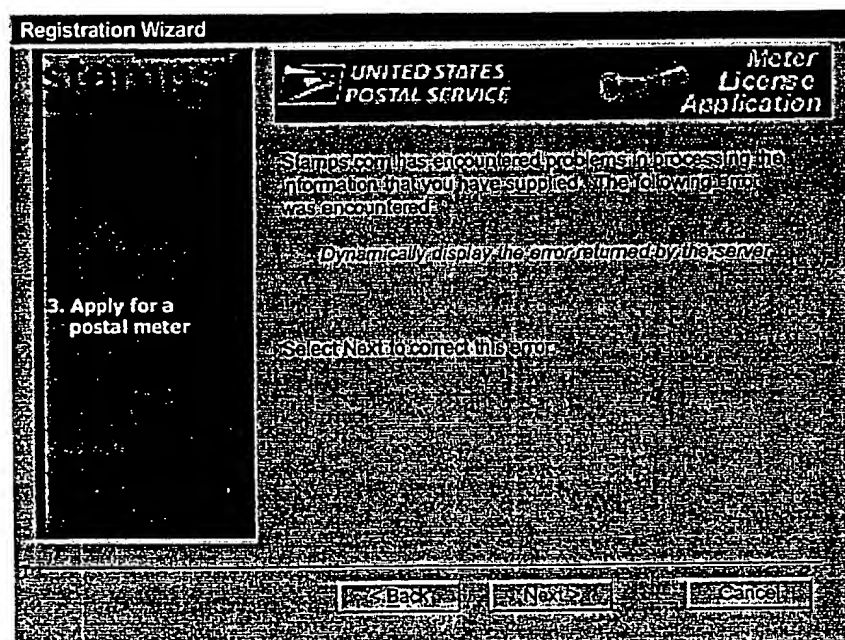
License #8  
submitting  
information

FIG. 10K

Error Display

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Registration Wizard

**Stamps** **stamps.com** **Service Sign Up**

The username that you entered is not available since it is already being used by another Stamps.com customer. Please enter another username or select the "Suggest" button and Stamps.com will provide you with a unique username.

UserName:

Error Dialog  
User name

FIG. 10L

Registration Wizard

**Stamps** **stamps.com** **Service Sign Up**

Please select a means of payment to be used for both the purchase of postage and for the payment of convenience fees.

Payment Type:  ☒

Name on Acc:

ABA Routing:

Account #:

Bank Name:


Account type: ☐ Checking ☒ Savings

Error Dialog  
Bad ACH

FIG. 10M

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Registration Wizard

**Stamps.com**  **Service Sign Up**

Please select a means of payment to be used for both the purchase of postage and for the payment of convenience fees.

Payment type:  ☐

Cardholder Name:

Card #:

Exp. date: month:  year:

Please provide your billing address for this account.

☐ Use Mailing address

Address:



City:

State:  Zip:

Error Dialog  
credit card  
rejected

FIG. 10N

Registration Wizard

 **UNITED STATES POSTAL SERVICE**  **Meter License Application**

Your Meter License Application has been successfully submitted.

This license should be processed in approximately 24-48 hours. At this time, you will be able to use all of the functionality available from Stamps.com.

The next step is to test your printer and determine whether or not your printer can print postage that meets USPS requirements. Select "Next" and the wizard will assist you in this process.

License #9  
Verification &  
Welcome PT

FIG. 10O

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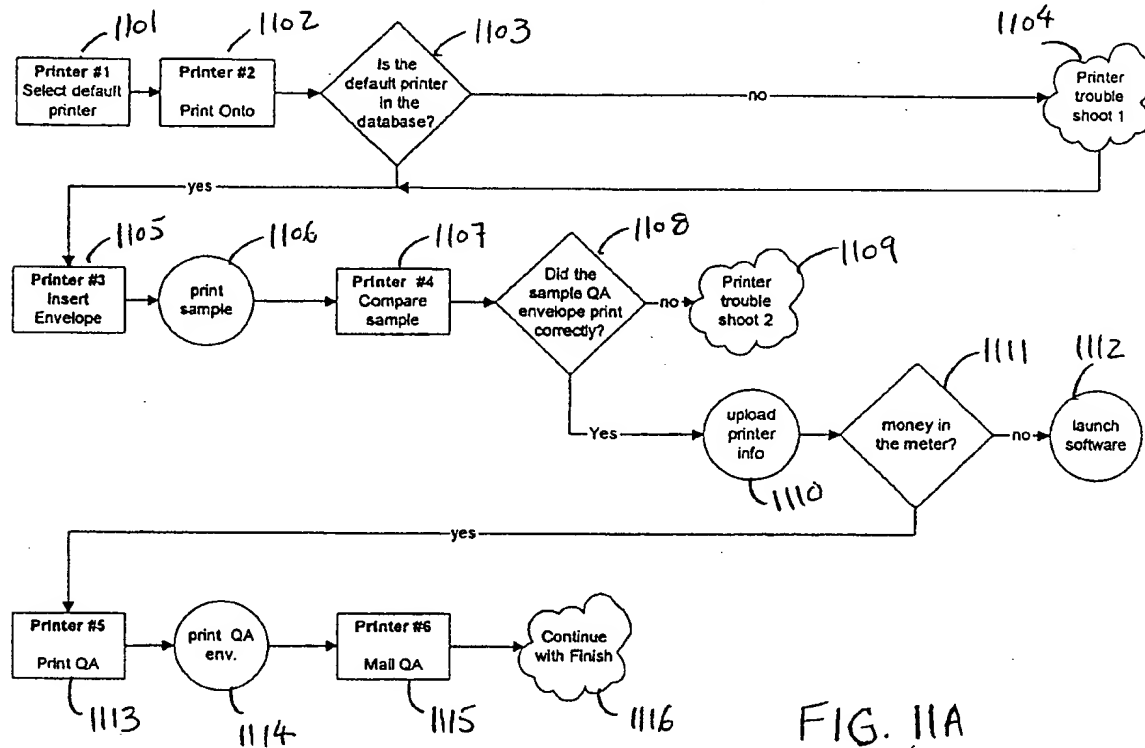
**Getting Started Wizard - Print Setup Wizard component**

FIG. 11A

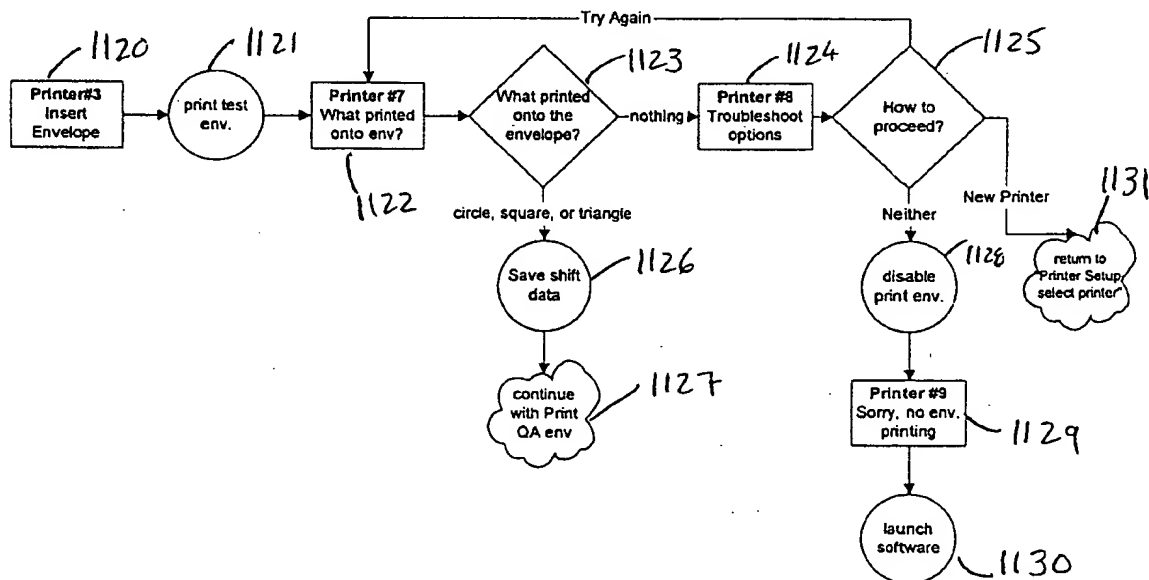
**Getting Started Wizard - Print Config Wizard component**

FIG. 11B

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Stamps.com Internet Postage Registration

UNITED STATES POSTAL SERVICE

Please select a default printer to be used for printing postage.

Default Printer:

In order to ensure that the selected printer is able to print in accordance with USPS requirements, we will need to print one or more sample pieces of postage as well as a real piece of postage.

Select Next to continue.

4. Test printer

Back Next Cancel

Printer #1  
Select Default  
Printer

FIG. 11C

Stamps.com Internet Postage Registration

UNITED STATES POSTAL SERVICE

Select the size of the envelopes that the postage will be printed onto.

Print Onto:

Would you like the return address to be printed on these envelopes? (select no if you are using envelopes with a pre-printed return address)

☐ yes

☐ no

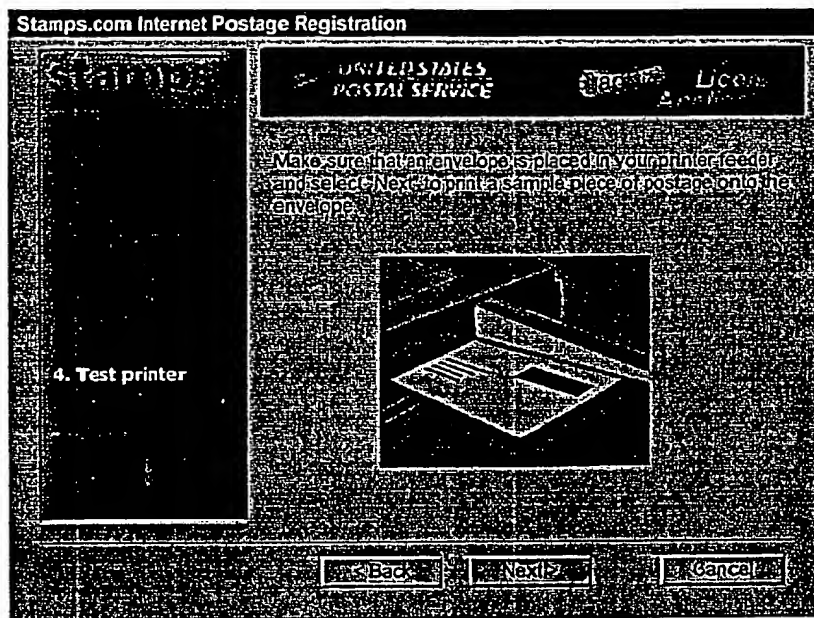
4. Test printer

Back Next Cancel

Printer #2  
Print Onto

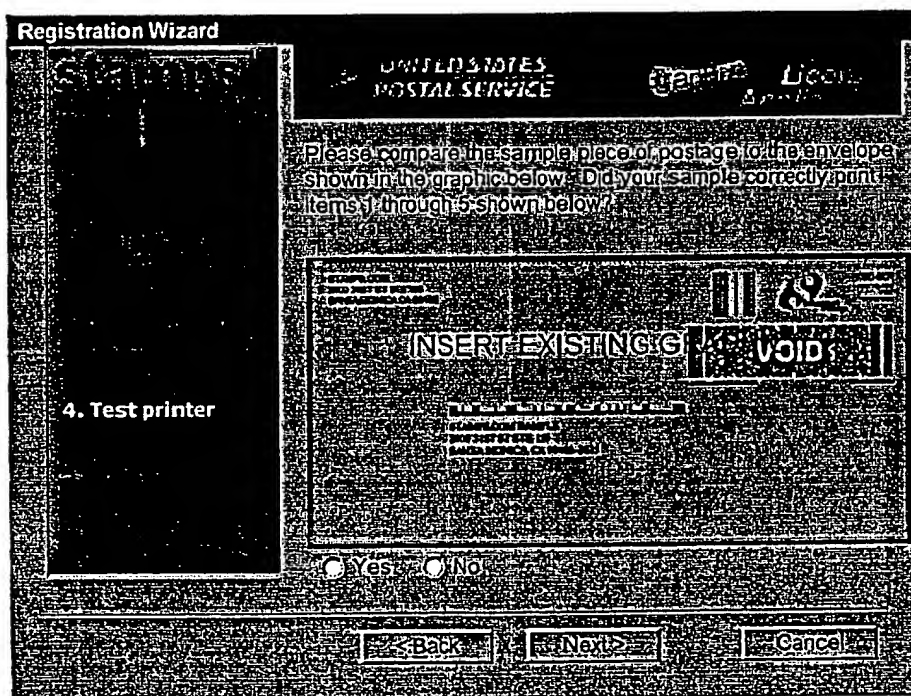
FIG. 11D

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Printer #3  
Insert  
Envelope

FIG. 11E

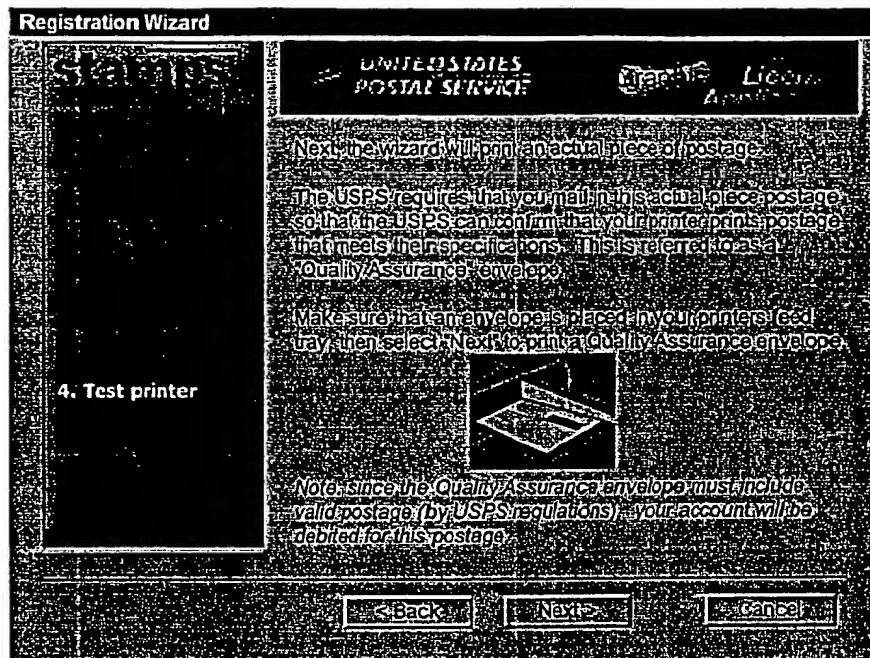


Printer #4  
Compare  
Sample

FIG. 11F

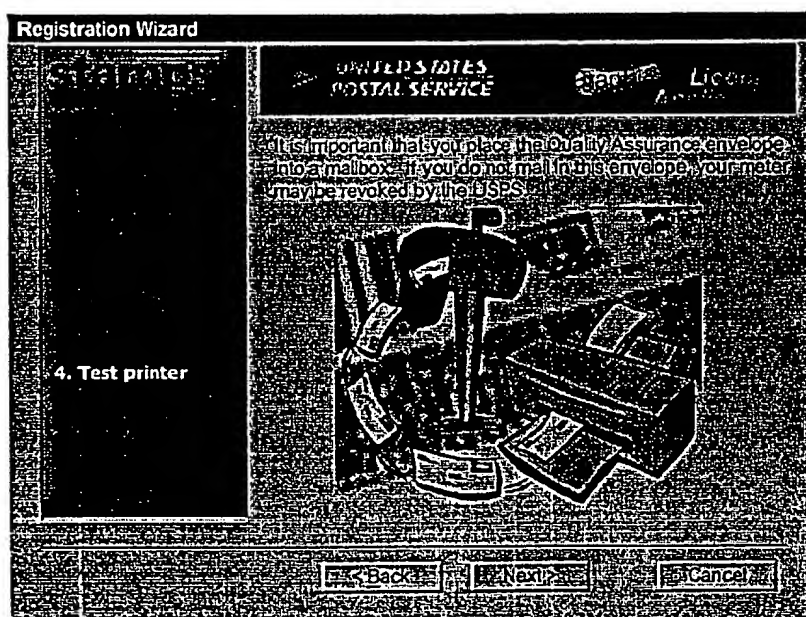


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Printer #5  
Print QA env

FIG. 11G

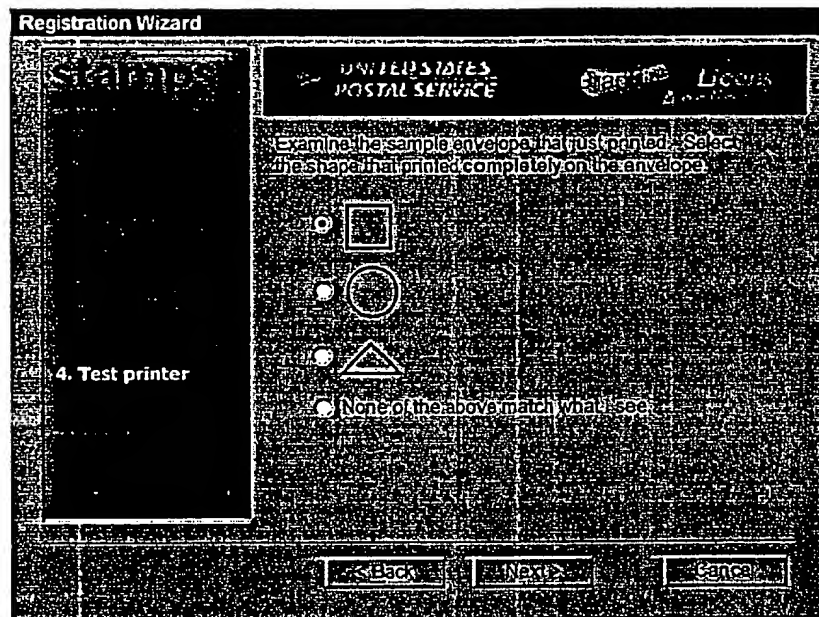


Printer #6  
Mail QA env

FIG. 11H

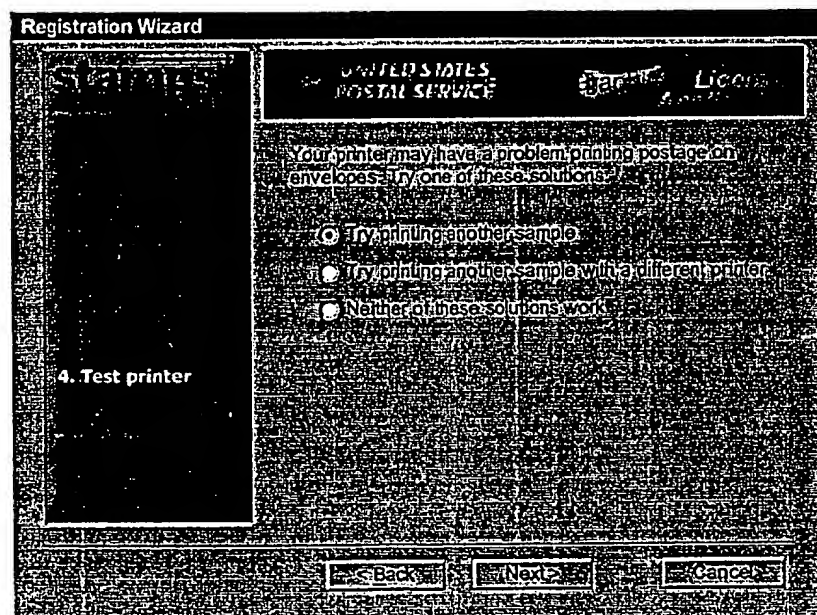


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Printer #7  
What printed  
onto env?

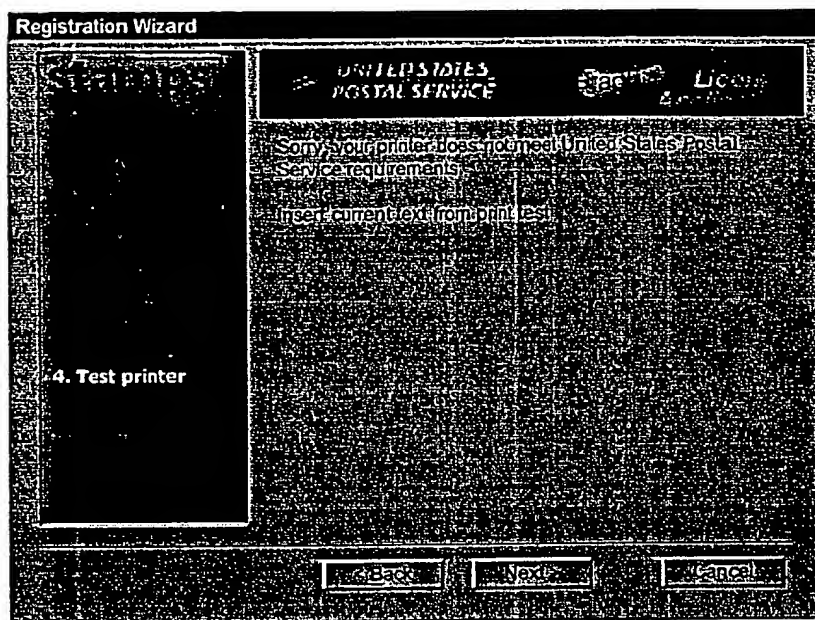
FIG. 11I



Printer #8  
Troubleshoot  
options

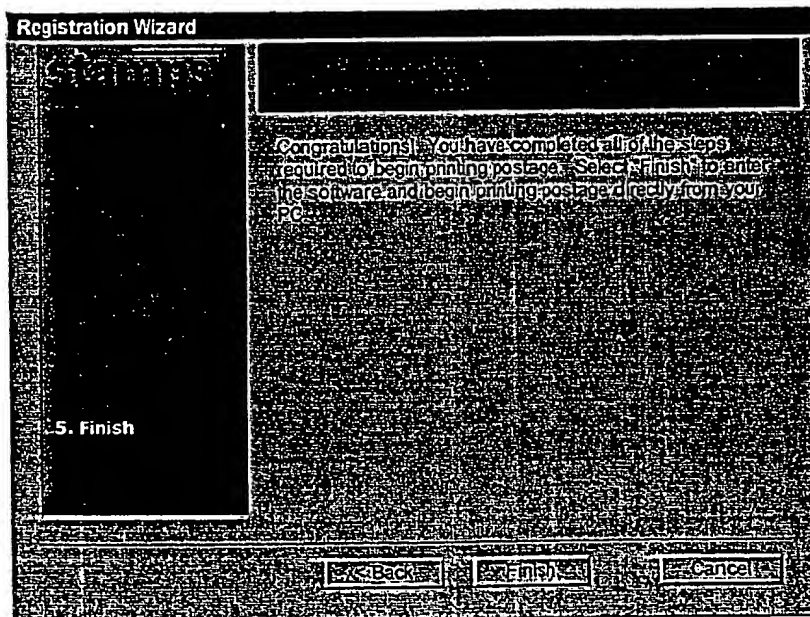
FIG. 11J

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Printer #9  
Sorry, no  
env. printing

FIG. 11K



Finish #1  
Congrats

FIG. 11L

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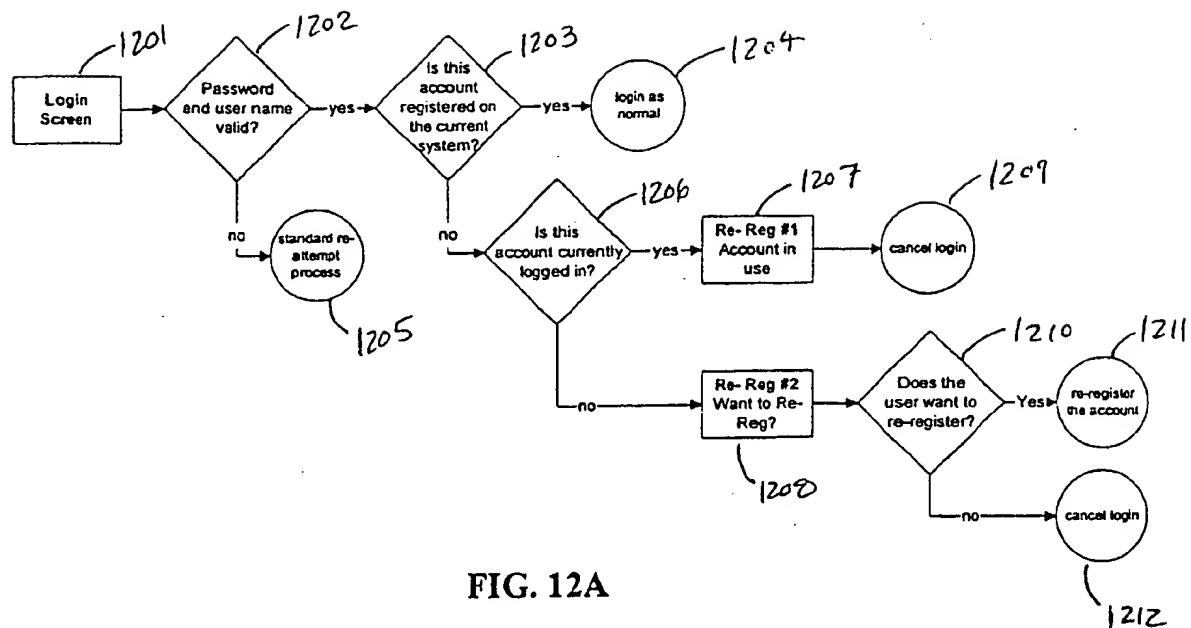


FIG. 12A

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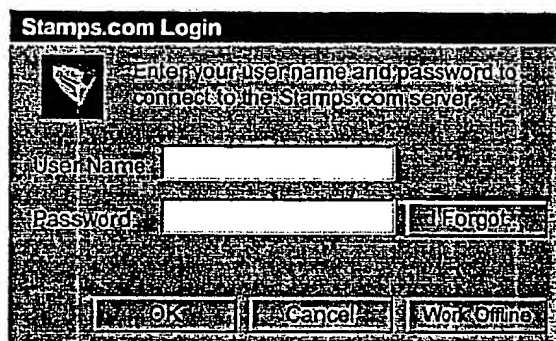
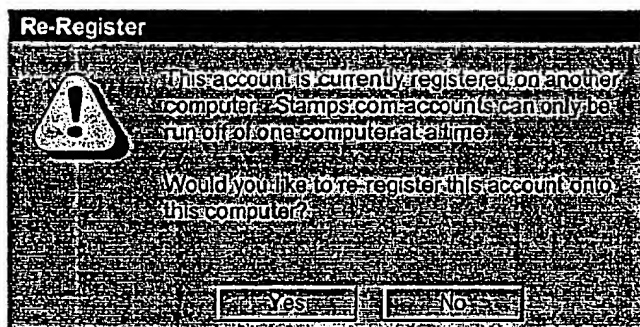


FIG. 12B



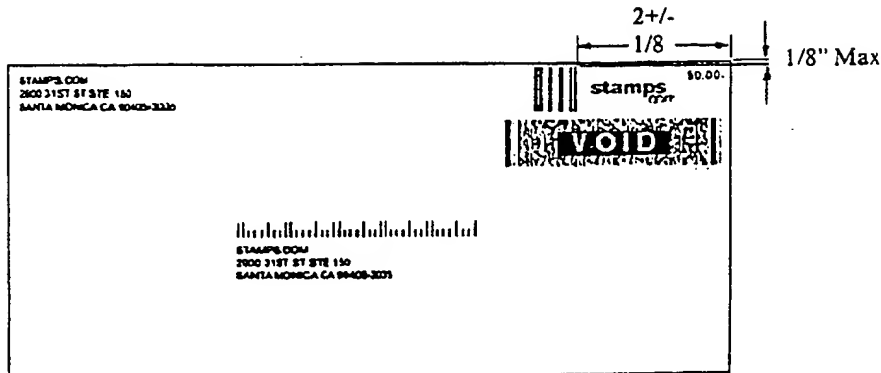
Re-Reg #1  
Account in  
use

FIG. 12C



Re-Reg #2  
Want to  
Re-reg?

FIG. 12D



**FIG. 13A**

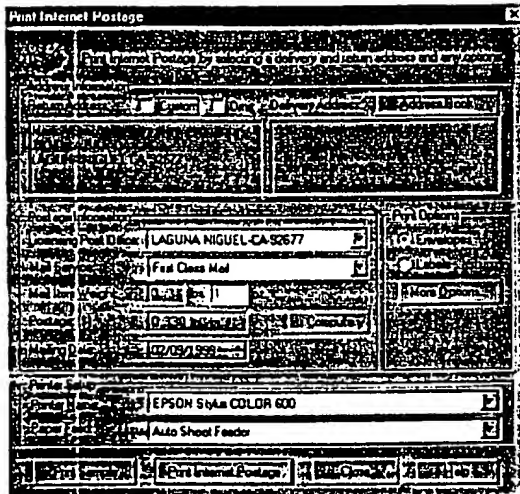
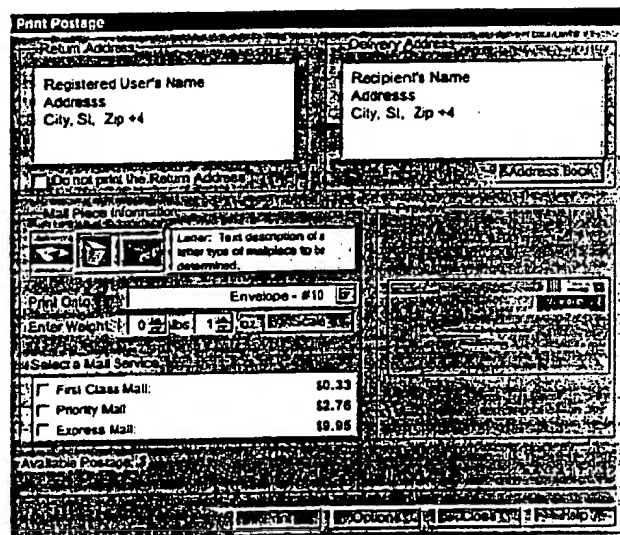


FIG. 13B



**FIG. 13C**

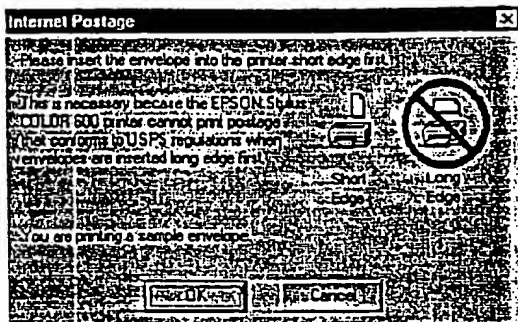


FIG. 13D

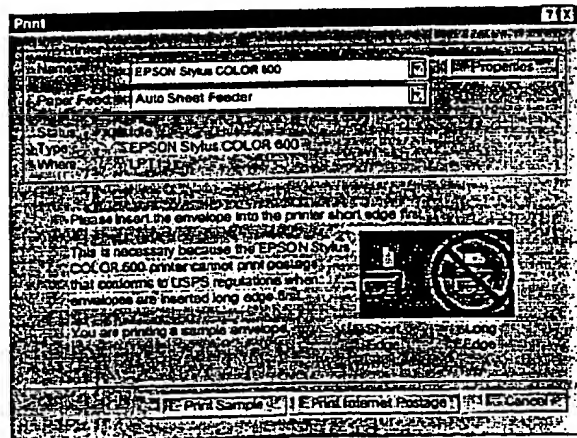


FIG. 13E

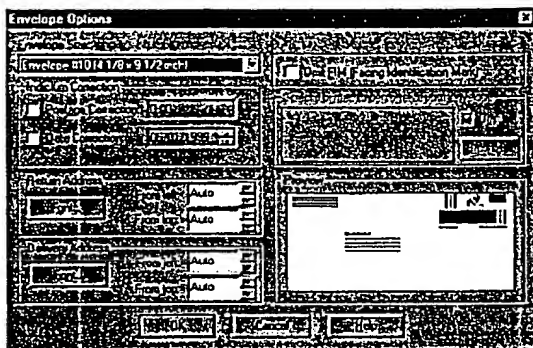


FIG. 13F

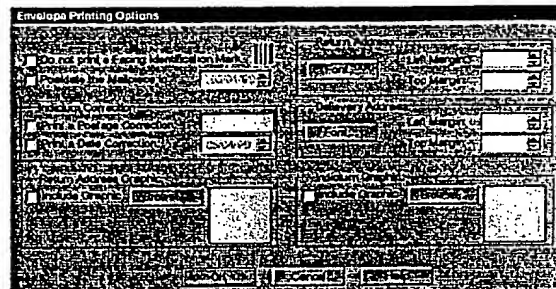


FIG. 13G

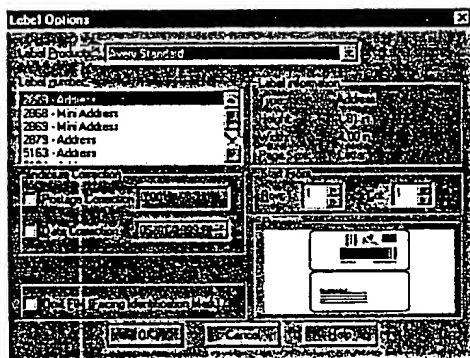


FIG. 13H

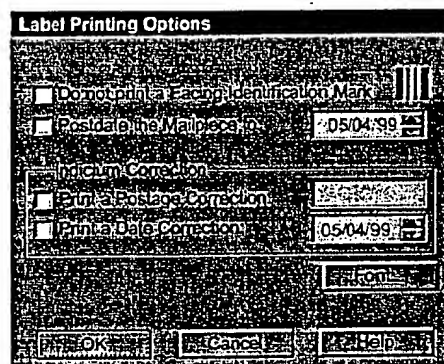


FIG. 13I

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**Print Postage**

Return Address	Delivery Address
Registered User's Name Addresss City, St, Zip +4	Recipient's Name Address City, St, Zip +4
<input type="checkbox"/> Do not print the Return Address	Address Book

**Mail Piece Information**

☐ Letter: Text description of a letter type of mailpiece to be determined

Print On: ☐ Envelope - #10 ☒

Enter Weight: 0 lbs 1 oz Scale

**Select a Mail Service**

<input checked="" type="checkbox"/> First Class Mail:	\$0.33
Priority Mail:	\$2.76
Express Mail:	\$9.95

Available Postage: 3

Preview

VOID

Print Options Close Help

FIG. 13J



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**Print Postage**

**Return Address**





Registered User's Name  
Addresss  
City, St, Zip +4

☐ Do not print the Return Address

**Delivery Address**

Recipient's Name	\$4.73
Recipient's Name	\$4.89
Recipient's Name	\$5.09
Recipient's Name	\$5.31
Recipient's Name	\$5.31

**Mail Piece Information**

    Letter: Text description of a letter type of mailpiece to be determined.

**Print On** Avery # 5643 ☒

**Enter Weight** 9 lbs. 4 oz. ☐ Scale

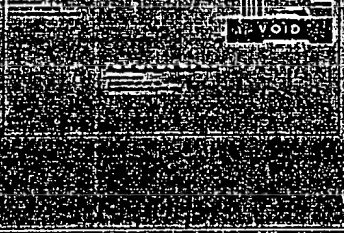
**Select a Mail Service**

First Class Mail:	\$1.12
Priority Mail:	\$4.73 to \$5.31
Express Mail:	\$13.25 to \$21.98

**Available Postage:** 3

**Cost of Mailing:** 3 recipients @ \$5.31 = \$15.93

**Preview**



**Buttons:** Print, Options, Close, Help

FIG. 13K

**Print**

**Printer**

Name: EPSON Stylus COLOR 600 ☒ Properties

Paper feed: Auto Sheet Feeder ☒

Status: Idle


Type: EPSON Stylus COLOR 600

Where: LPT1

Please insert the envelope into the printer short edge first.

This is necessary because the EPSON Stylus COLOR 600 printer cannot print postage that conforms to USPS regulations when envelopes are inserted long edge first.

You are printing a sample envelope.




**Buttons:** Print Sample, Print Internet Postage, Configure, Cancel


FIG. 13L




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**Envelope Printing Options**

☐ Do not print Facing Identification Mark 



☐ Postdate the Mailpiece to: 05/04/99 

**Indicum Correction**


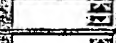
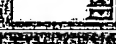
☐ Print a Postage Correction: 

☐ Print a Date Correction: 05/04/99 


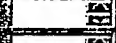

**Return Address Graphic**

☐ Include Graphic:  



**Return Address**

Font:  Left Margin:  Top Margin: 

**Delivery Address**

Font:  Left Margin:  Top Margin: 

**Indicum Graphic**

☐ Include Graphic:  






  

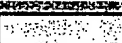
FIG. 13M


**Label Printing Options**

☐ Do not print Facing Identification Mark 



☐ Postdate the Mailpiece to: 05/04/99 


**Indicum Correction**

☐ Print a Postage Correction: 

☐ Print a Date Correction: 05/04/99 

**Indicum Graphic**

☐ Include Graphic:  

Font: 




  

FIG. 13N

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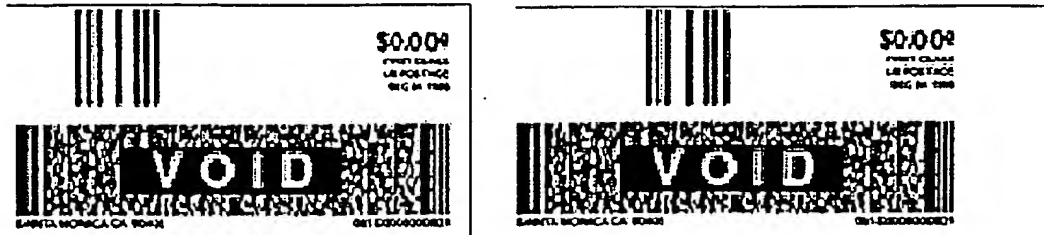


FIG. 14A

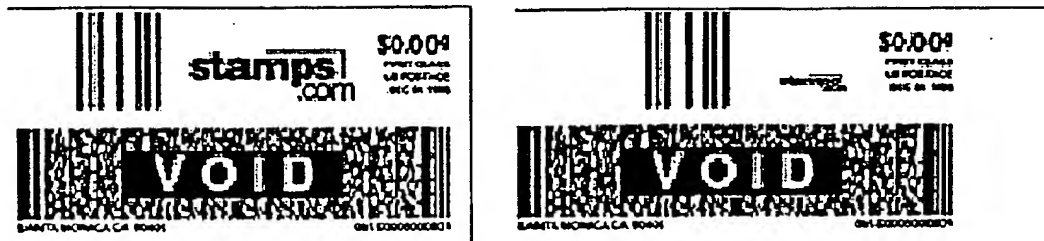


FIG. 14B

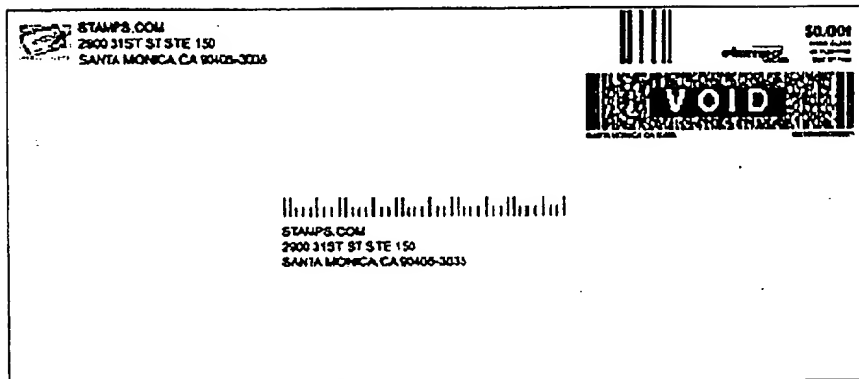


FIG. 15A

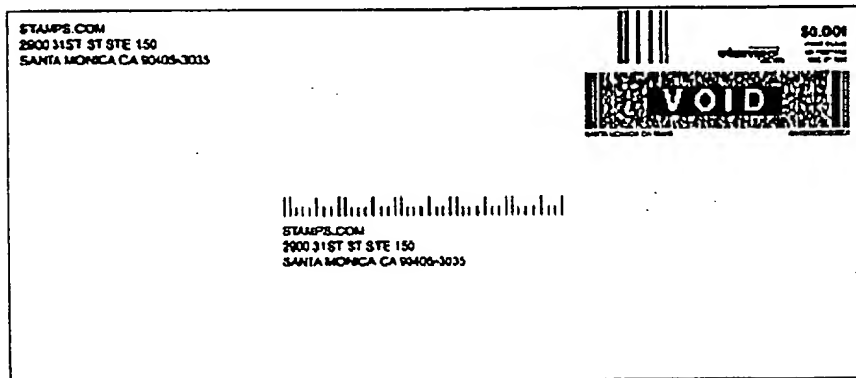



FIG. 15B


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**Envelope Printing Options**

☐ Do not print a Facing Identification Mark 



☐ Postdate the Mailpiece to: 05/04/99

**Indium Correction**



☐ Print a Postage Correction: 


☐ Print a Date Correction: 05/04/99

**Return Address Graphic**



☐ Include Graphic:  


**Return Address**

Font:  Left Margin: 



Top Margin: 

**Delivery/Address**

Font:  Left Margin: 

Top Margin: 

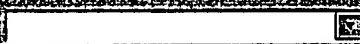
**Indium Graphic**

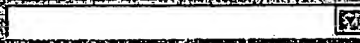

☐ Include Graphic:  


OK Cancel Help

FIG. 15C

**Address Book**

Select an Address Book: 

Select a database or file:  

Security Key: 

NAME	TYPE	CONTROL
Sample Group		
Star	Mark	STAMP.COM
Font Control	Un	STAMP.COM

NEW TYPE  
NEW GROUP  
Properties  
Delete  
Export  
Import  
Print

OK

FIG. 16A

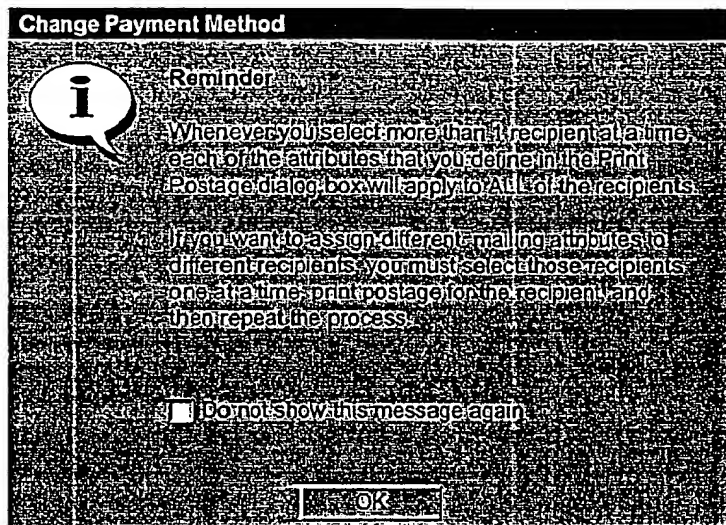


FIG. 16B

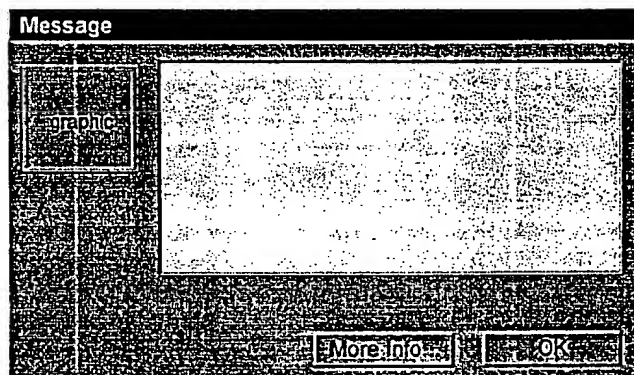


FIG. 17A

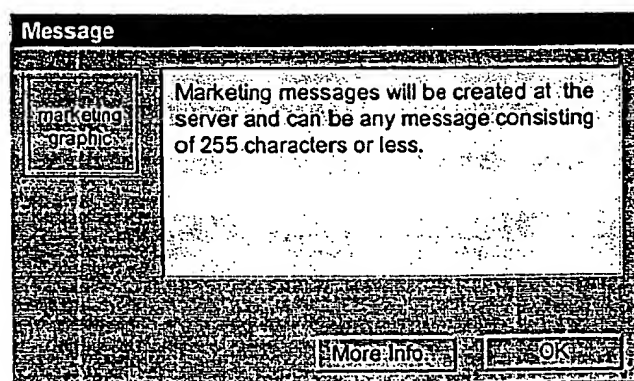


FIG. 17B

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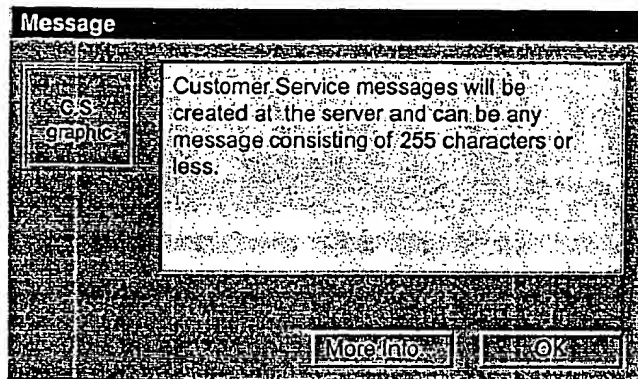


FIG. 17C

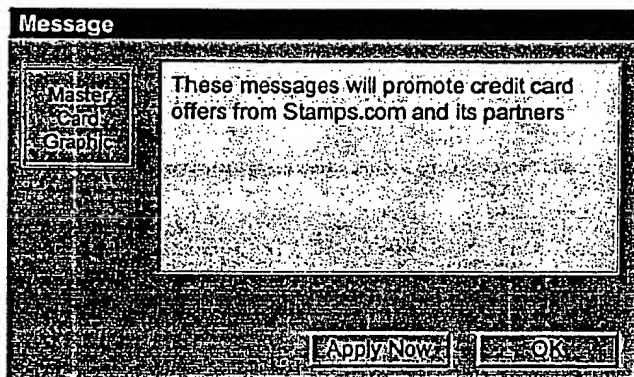


FIG. 17D

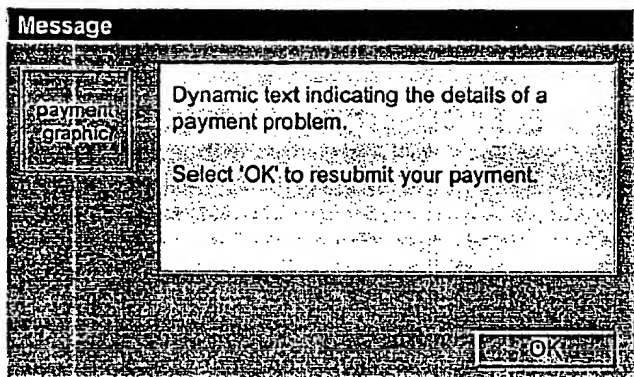


FIG. 17E

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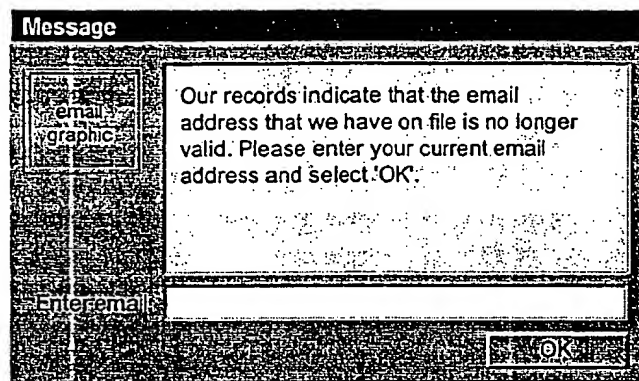


FIG. 17F

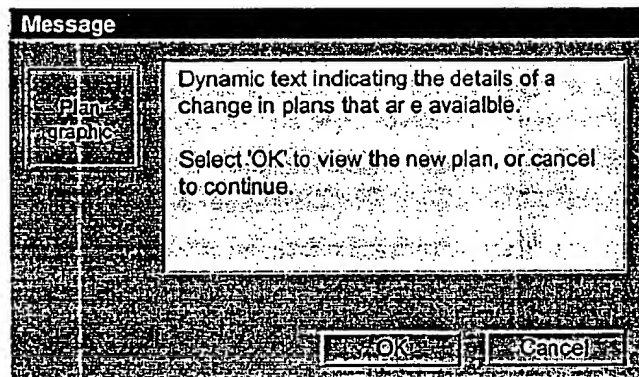


FIG. 17G

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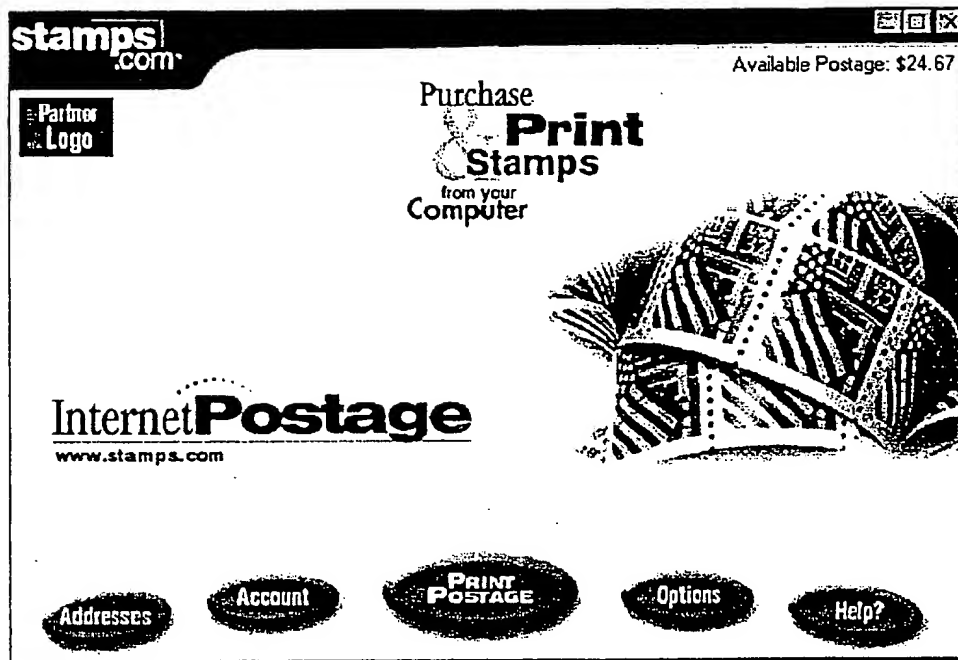
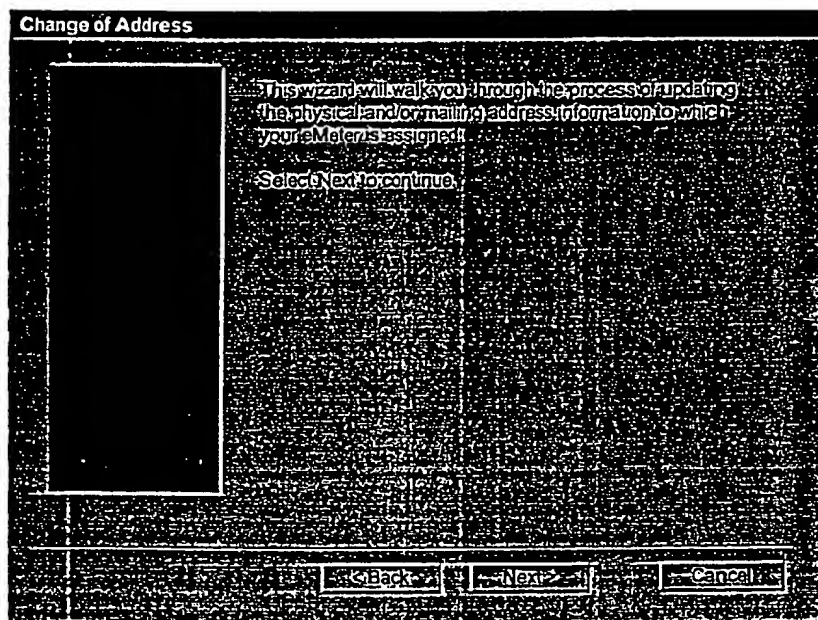
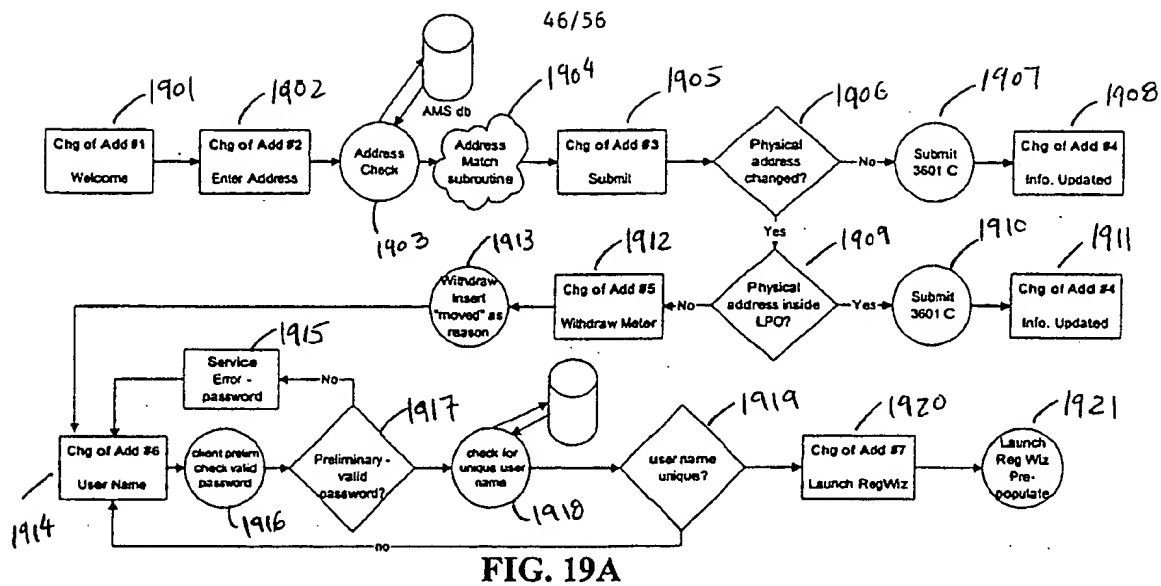


FIG. 18



Chg of Add #1  
Welcome

**FIG. 19B**



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**Change of Address**

Please enter any changes to either your physical or mailing address.

**Physical address (where this computer is located)**

Address: 259 Granada Avenue  
 City: Long Beach  
 State: CA ☒ Zip: 90803

**Mailing address (where you receive mail)**

☐ Use physical address

Address:   
 City:   
 State: ☒ Zip:

Chg of Add #2  
Enter Address

FIG. 19C

**Change of Address**

Before submitting the updated information to the USPS, please review the answers that you provided and verify their accuracy.

Applicant's Name: mark casler

Physical Address:  
 2834 LLA BAYADA  
 LAGUNA NIGUEL, CA 92677-7057

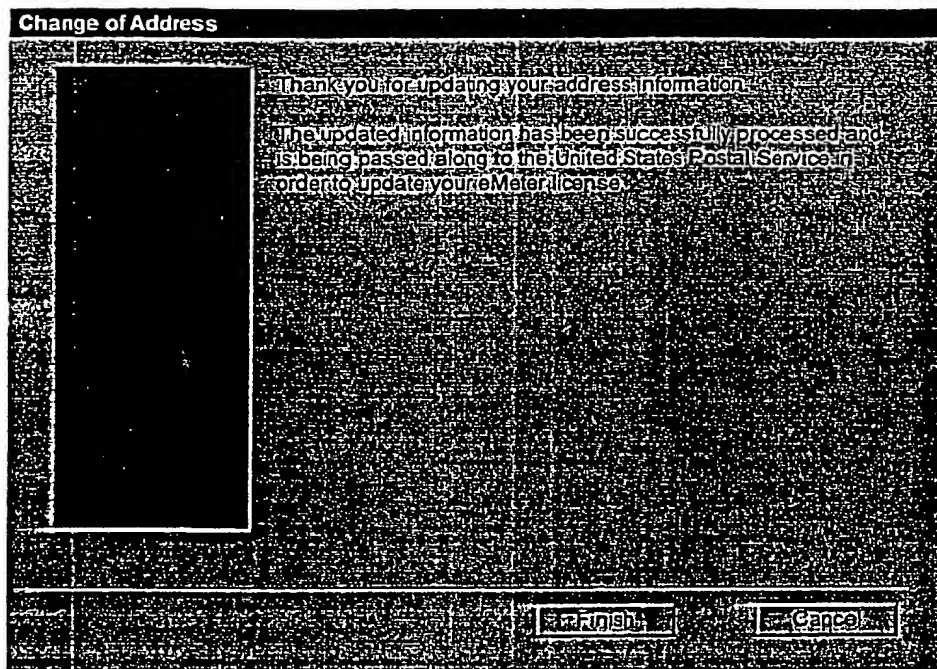
Mailing Address:  
 2834 LLA BAYADA  
 LAGUNA NIGUEL, CA 92677-7057

☒ I verify that the information shown is truthful and accurate.

Chg of Add #3  
Submit

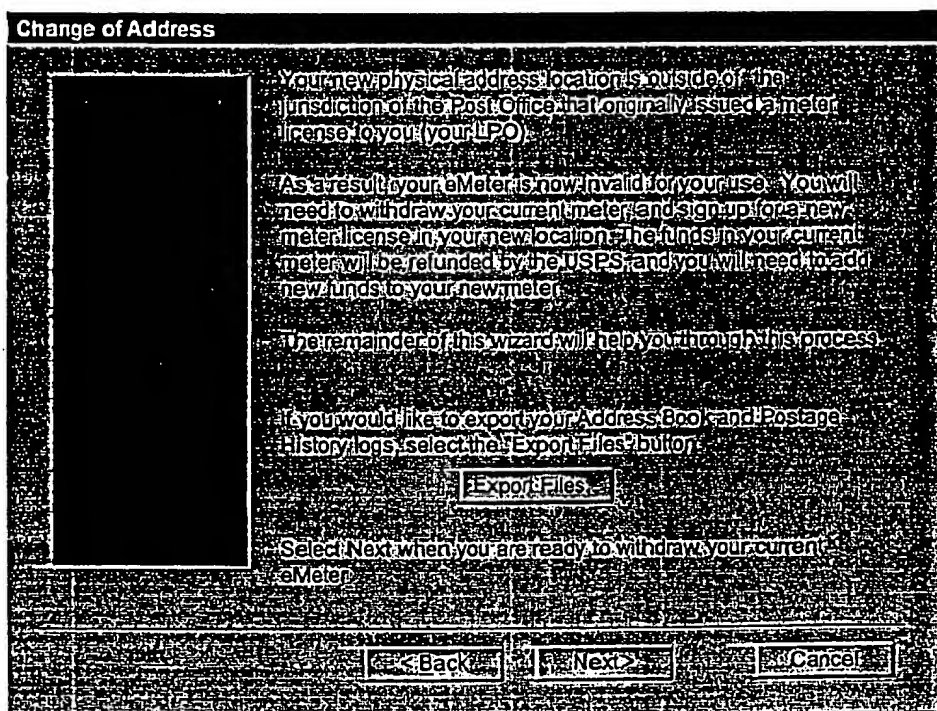
FIG. 19D

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Chg of Add #4  
Info Updated

FIG. 19E



Chg of Add #5  
Withdraw Meter

FIG. 19F

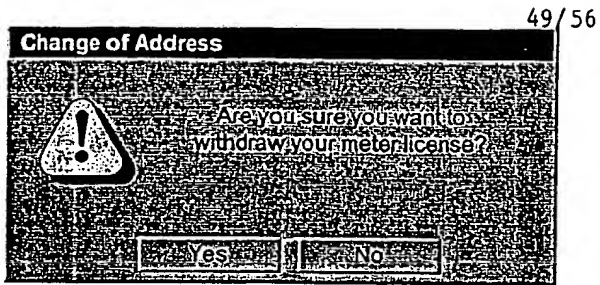


FIG. 19G

Change of Address

Your Meter license has been withdrawn.

Before registering for a new meter license, you will need to provide a NEW user name and password to access Stamps.com.

User Name

Please select a password. Your password must be at least 6 characters in length and contain at least one letter and one number.

Password

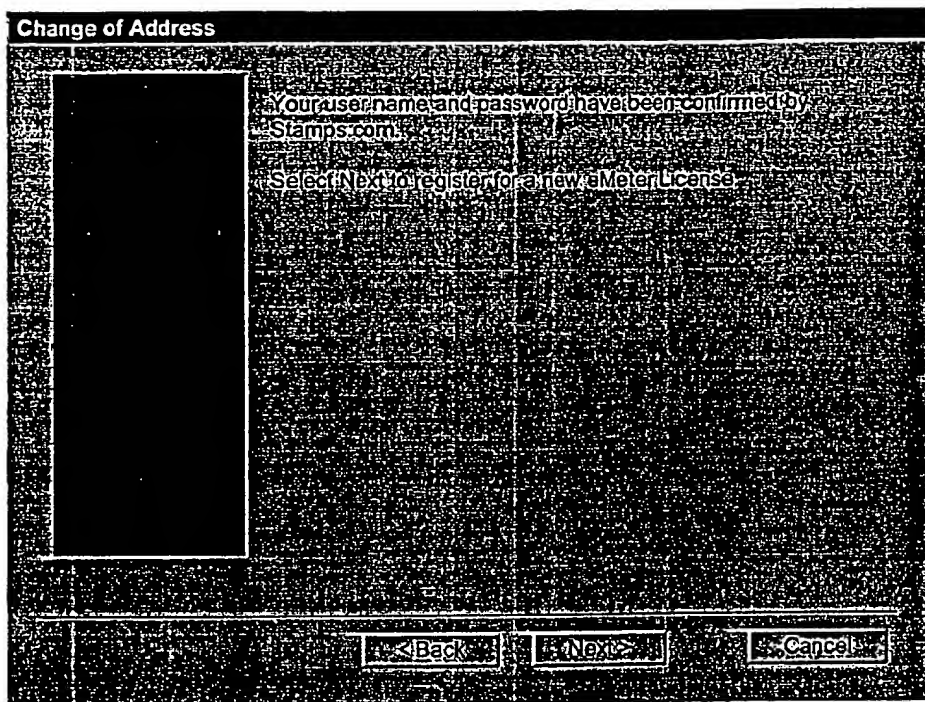
Retype Password

Next Cancel

Chg of Add #6  
User Name

FIG. 19H

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Chg of Add #7  
Launch Reg  
Wizard

FIG. 19I

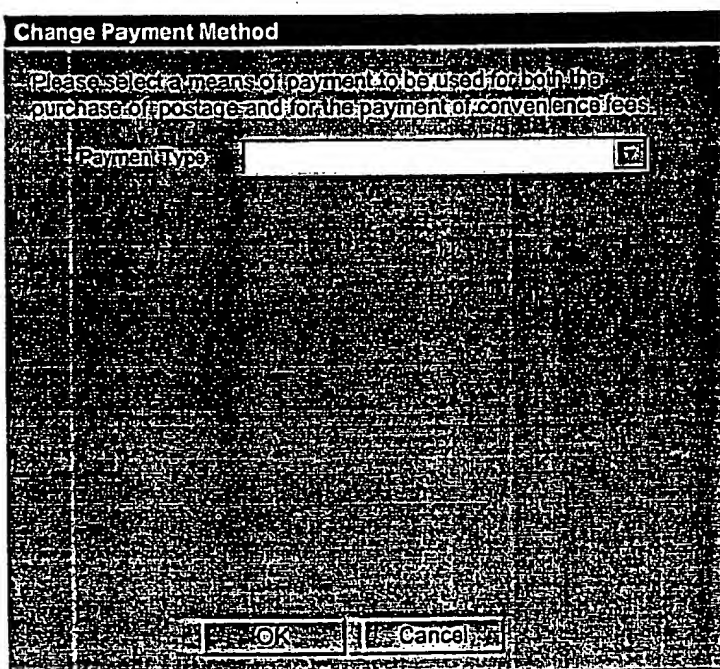


FIG. 20A

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**Change Payment Method**

Please select a means of payment to be used for both the purchase of postage and for the payment of convenience fees.

Payment type:  ☒

Cardholder Name:

Card #:

Exp. Date:

Please provide your billing address for this account.

☐ Use Mailing address.

☒ Zip:

FIG. 20B

**Change Payment Method**

Please select a means of payment to be used for both the purchase of postage and for the payment of convenience fees.

Payment type:  ☒

Name on Account:

ABA/Routing #:

Account #:

Bank Name:

Account type: ☐ Checking ☐ Savings

FIG. 20C

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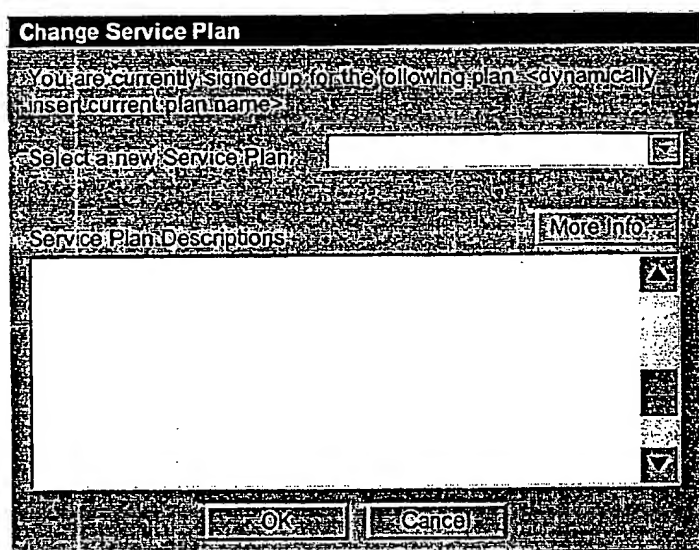


FIG. 21A

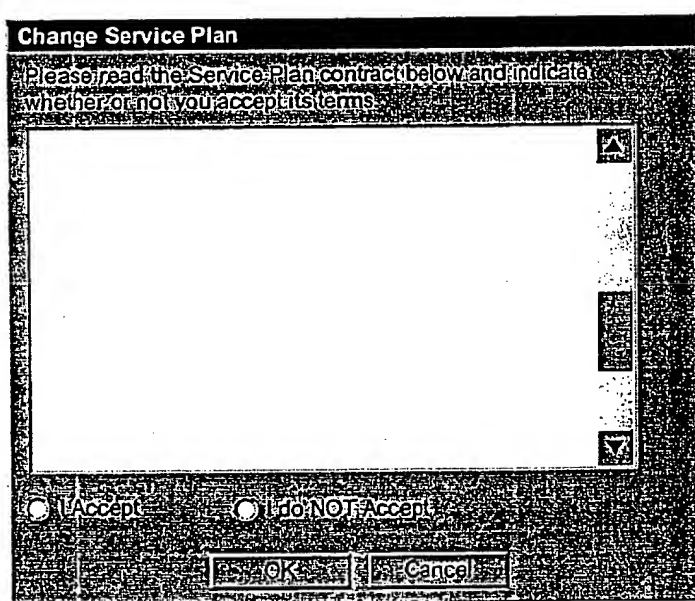


FIG. 21B



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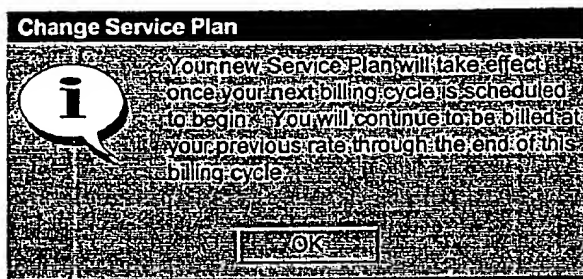


FIG. 21C

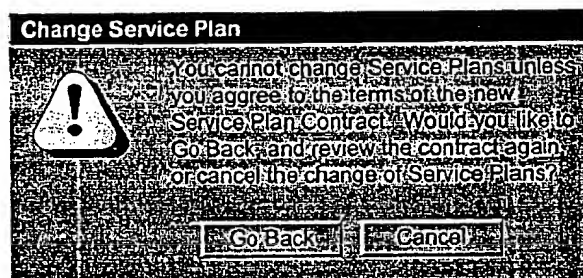


FIG. 21D

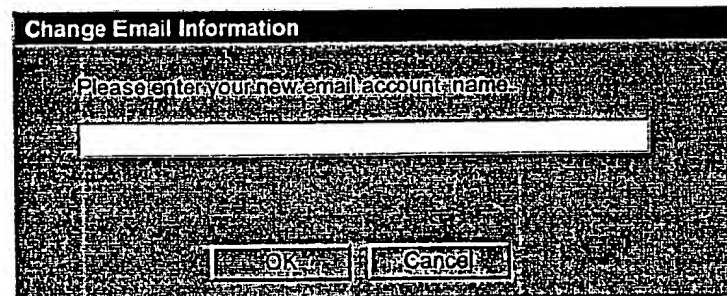


FIG. 21E

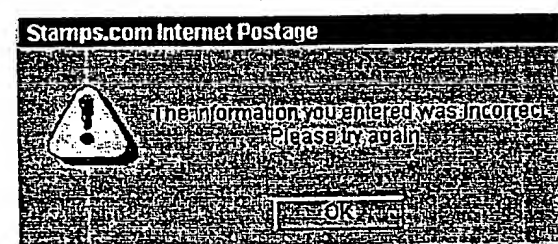


FIG. 22A

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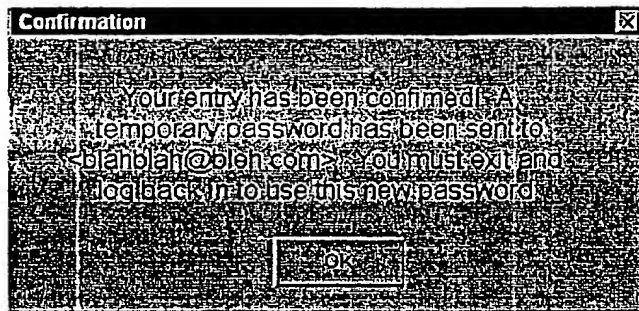


FIG. 22B

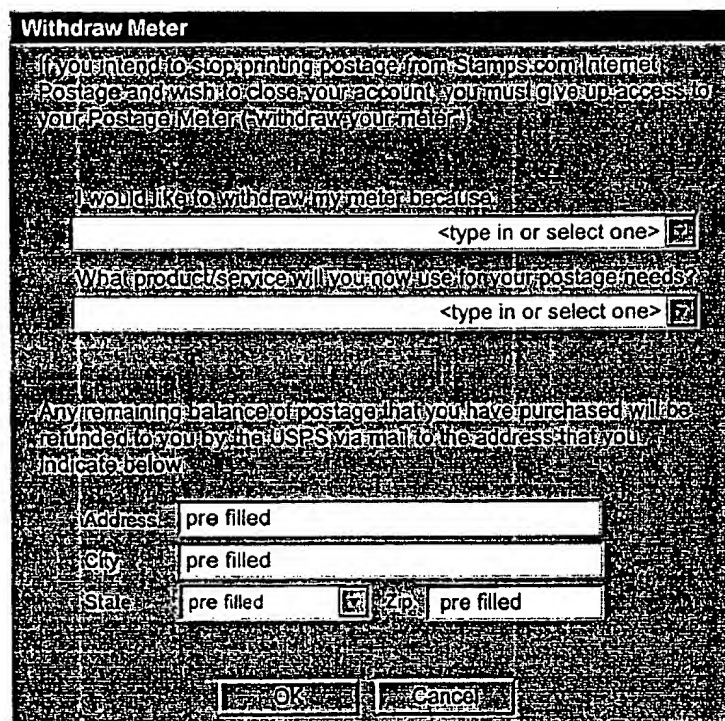
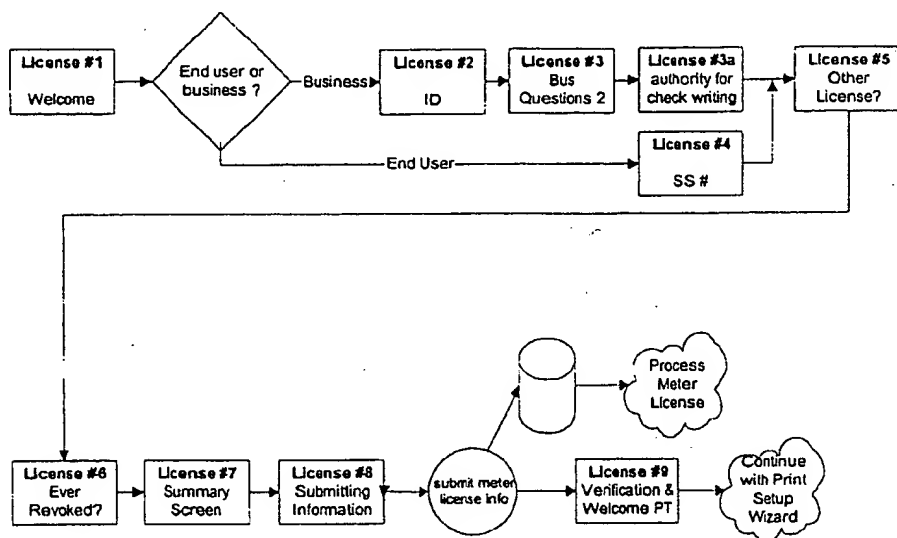
A screenshot of a 'Withdraw Meter' form. The text at the top reads: 'If you intend to stop printing postage from Stamps.com Internet Postage and wish to close your account, you must give up access to your Postage Meter (withdraw your meter.)'. Below this is a section titled 'I would like to withdraw my meter because:' followed by a text input field with the placeholder '<type in or select one>'. Below that is another section titled 'What product/service will you now use for your postage needs?' followed by another text input field with the placeholder '<type in or select one>'. Below these is a paragraph: 'Any remaining balance of postage that you have purchased will be refunded to you by the USPS via mail to the address that you indicate below.' This is followed by a form with four fields: 'Address:' (pre filled), 'City:' (pre filled), 'State:' (pre filled), and 'Zip:' (pre filled). At the bottom are 'OK' and 'Cancel' buttons.

FIG. 23



**Registration Wizard component****FIG. 24**

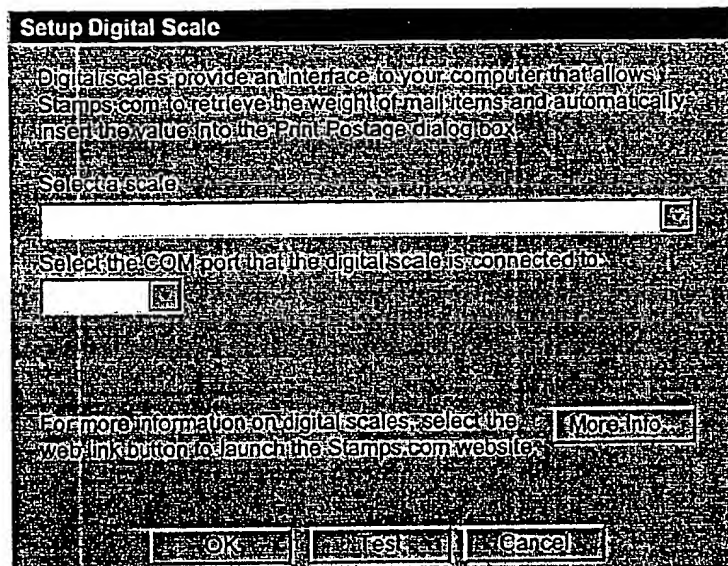


FIG. 25A

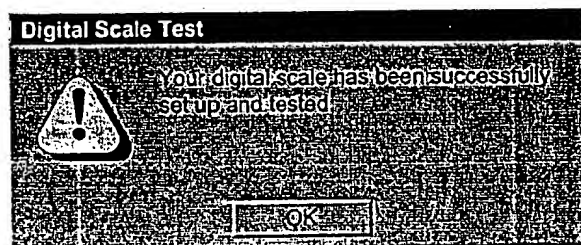


FIG. 25B

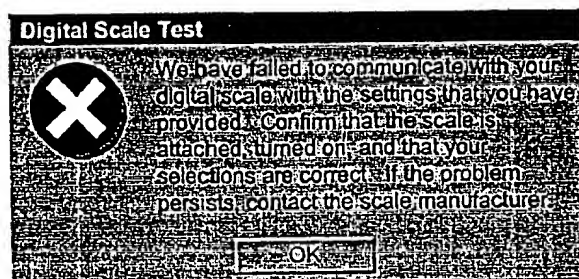


FIG. 25C